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The Place of the Engineer in Purchasing Inspection and Expediting

By JOHN W. PARKS
Standard Oil Co. of California, San Francisco, Calif.

Introduction

The programmed use of engineers in our purchase and stores department was initiated by us in 1943. After a period of assimilation when organization and procedures were developed, our engineers gave their assistance in a steadily expanding application of these principles. It is generally recognized that the great diversification of problems in purchasing for an oil company requires a group made up of various talents, such as business administrators, accountants, engineers, and attorneys; and occasionally others to supplement the buying organization.

Background

Actually, engineers were involved in purchasing long before 1943. That is, engineers in the operating departments were used as inspectors and expediters out in the suppliers' plants. Later they were incorporated as a separate group in what we called the materials department, which also included materials engineers, a testing laboratory, and purchasing. The materials department was discontinued in 1933, and the inspectors and the materials engineers joined the engineering department but continued to do inspecting and expediting in the suppliers' plants. In 1942 a careful organization analysis was made. This resulted in the moving of the inspection group to the purchase and stores department in 1943, since it was concluded that their services were more related to purchasing than to engineering. During inspection and expediting in suppliers' plants, an engineer must necessarily negotiate with the supplier in many ways. Cost responsibility must be established for unanticipated conditions. More detailed inspection methods are frequently required when fabricating difficulties must be appraised to devise corrective steps. This is costly to the supplier, and an agreement must be reached on whether the customer or the supplier should rightfully bear the expense. Such negotiation, of course, is closely related to buying. In 1946, when our staff-line organization was established, the position of supervisor of inspection, expediting, and quality control was established, to be filled by an engineer who was formerly chief inspector.

General Principles

As mentioned before, oil business buying is rapidly becoming more technical. Deeper wells, wider variations in processing temperatures and pressures, extremes of all kinds in petrochemical plants, etc., bring up varied technical problems. Of course, design and any revisions found necessary during procurement are decided on with the counsel of the design and research organizations. However, with these expanded activities, the purchase and stores department must grow in stature to properly evaluate problems and situations as they arise, so that purchase and stores department personnel will handle those questions and problems which are truly a part of purchasing, inspection, or expediting and will not bother technical groups with routine matters. I should like to give you an example of how our engineers function in this regard. Our experience in processing indicated that a need existed for stainless-steel castings which were different from any commercial specification. Our purchase and stores department engineers visited foundries and discussed the practical applications of the specification with the proper officials. They found it necessary to divert the thinking of the foundry men from normal channels which had resulted after long years of service to a select group of customers. Some foundries serving the lumber industry, for example, had not done much research on long-time temperature effects; and it was necessary to convince them that proprietary alloys, of which they were proud, would not be suitable for higher temperature services. Some may have doubted our willingness to pay the price for the special features involved. On the other, sev-

eral sources made valuable suggestions. All comments and suggestions were organized and presented to a committee. An agreement was reached on a revised version of the proposal. We again canvassed the sources. Two years later — after four such cycles—we issued a good commercial specification which has been in use for eight years now without a revision. After an operating department has written a requisition for what it wants, the buying group must find sources which can be depended upon to produce the material in a specified quality and on time.

For common repetitive items, inspectors' recommendations and the usual business considerations suffice when rating the sources. Current performance records maintain up-to-date evaluations. For unusual or critical fabrication jobs, the purchase and stores department engineer reviews the requirements with the design or process engineers, and then visits the likely sources. If a review of the plant facilities confirms our engineer's opinion concerning the adequacy of the supplier's facilities, the engineer explains the proposed job to the supplier's officials in order to appraise their staff and also appraise their willingness to tackle the assignment. The engineer then prepares a written recommendation which is discussed in a meeting with the buyer and the process or design engineers. A final decision is reached at this meeting.

The purchasing department also determines the steps that must be taken to assure quality and delivery. On routine jobs the chief inspector of a geographical division, guided by broad, formal departmental procedures, decides on and executes the steps necessary to inspect and assure delivery as required. Specific monetary limits are not set on any given order, but the chief inspector is generally made accountable for the holding of expenses within reasonable bounds. Cost studies are made periodically to determine his costs on individual jobs of various types as well as for whole projects. Special jobs necessitate preplanning of inspection and delivery effort before bids can be invited. The supplier then bids with complete knowledge of the extreme quality control measures which will be applied and/or the importance of delivery and the expediting which will be applied to assure it. The purchase and stores department engineers lend their assistance throughout these negotiations and meet with the buyer and supplier to negotiate the final details of the contract or order. For example, when the first few orders for the special stainless-steel castings mentioned before were placed, our engineers and the buyer met with the manufacturer's representative and explained to him what he was expected to do in regard to inspection, testing, etc., and also explained what would be our inspection actions. The order was then accepted by the foundry with complete understanding of the requirements.

It is also the function of the purchasing department to answer bidders' and suppliers' questions whenever possible, so that operating departments are not bothered by unessential questions or irrelevant suggestions. Thus, the engineer in the purchasing department supplements the talents of the buying group with technical education, experience, and special training. He appraises sources, including the skill and aptitude of personnel as well as the physical plant and workmanship. He establishes inspection and expediting procedures. By answering buyers' general technical questions and by reviewing their suggestions, he can screen them so that only pertinent matter is referred to operating department engineers.

Purchasing department personnel must use good judgment in order to avoid attempts to do work which would involve engineering aspects but would actually be beyond their scope. Yet the purchase and stores department staff must do all that they possibly can to relieve engineering groups from procurement problems. I should like to make this statement clear by giving an example. An engineer inspecting some cast-steel pumps was also expediting. When he inspected the castings, he noticed the fact that the foundry had been generous and had used a little nickel in the chemistry. The inspector thought it was a good feature, noted its use in his next current progress report, and attached the certified analysis to the report. The metallurgical service group to the process engineers immediately rejected the castings because they realized that nickel, which would enter the stream by corrosion, was poison to the particular process. The inspector should have questioned the analysis when it was established that it was different from the ordered analysis. However, his general knowledge of metallurgy had led him to believe that he was accepting a superior steel. The strong delivery aspect, no doubt, was a contributing factor in this failure because it made the inspector possibly overanxious to move things along. As it was, the pump cases were almost completely machined before work was stopped. Such special cases are now brought out in requisitions when it is necessary to caution suppliers against their good intentions and to flag them for buyers and inspectors.

Functions

The core of our engineers' work presently is in inspection and expediting. Purchase orders requiring these actions are turned over to the inspection group where they are processed to completion. Any change in the order found necessary during inspection or expediting is referred to the buyer for negotiation and formal change order. In the line organization, materials-engineering service of all kinds is rendered incidentally. The staff supervisor of inspection, expediting, and quality control, on the other hand, spends only about 10 to 15 per cent of his time on routine matters and devotes the remainder to general service.

The wider areas where engineers may serve in the purchase and stores department offer many opportunities. Engineers can contribute much by helping purchasing department groups in their contribution to standardization, specifications, and recommended practices. The engineer quickly grasps the technical purposes and application of operating department's proposals. With his engineering ability and his wide purchasing experience in many different types of production and fabri-

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cating plants, the engineer is able to correlate practical aspects of procurement, trade relations, etc., with the technical goals in preparing standards, specifications, etc. Our engineers in the purchase and stores department serve on company-wide committees established for this purpose. After assisting in preparing drafts, they secure comments and suggestions of probable sources. These sources are screened so that final issues of standards and specifications are assured of good practical application.

Part of our inspection and expediting engineers' responsibility is to be aware of commercial standard items which can be used to replace our own standard designs. Each is provided with a set of company standard drawing books and each new issue is routed to all members before it is inserted in the book. Whenever a supplier makes an article of his own design for regular sale and this article serves the purpose of an item in our standards, a cost analysis is made to determine whether the new article or our item would be more economical.

Our engineers also add technical and inspection experience to the buying function to ferret out the best sources for noncommercial, special items, such as castings in unusual alloys, difficult fabrication, and machine problems, etc. This frequently is concurrent with engineering design which results in a workable initial requisition reaching the purchasing department group.

When a desirable supplier is not in a position to readily supply our needs, the purchase and stores department engineer can be of assistance. By reviewing the supplier's facilities and coupling this with his knowledge of company requirements, he can determine modifications or new products which the supplier can make for us. He can also assist a supplier in meeting our specifications. For this he can, if necessary, draw on service available in our engineering department materials laboratories and research groups. Having been formerly associated with one or more of these groups, or having worked with them previously on technical inspection problems, our engineers usually know which expert to ask for help.

The proper processing of field complaints on defective material and equipment is another field for our engineers. If routine handling does not get results promptly, the buyer refers the matter to the chief inspector in his particular office. This engineer secures the technical facts, then visits the source and explains the difficulties. Most often, delays are due to misunderstanding. When an engineer explains the field troubles to a shop production man, there is usually no further difference of opinion and a plan is worked out to preclude recurrence of field trouble. Examples of trouble might be improper threading of flanges, surface finish in machine work, revision of design to reduce failures from stresses at notches, etc. I will describe in more detail the situation in which embossed service-station signs were rejected early in a contract. The embossing of the large letters caused waves or curvature in the surrounding metal. When our engineer was contacted, only a few had been shipped but some 150 were formed. Discussions with the stamping people indicated that only a new metal die would solve the problem, at a cost of $18,000 and a delay of several weeks. This would have been a very serious problem for the sign maker and would disrupt our building program. Our inspector solved it by taking a few warped signs to a clever elderly craftsman whose business was fender repairing. He knew how and where to heat and chill the thin metal to remove bulges and bends. After experimenting on 3 or 4 signs, he took the job of straightening all as fast as needed at a fraction of the cost of the new die. The order was completed on time at a profit to all concerned, and we erected beautiful signs.

Organization

The engineer may be trained for many positions in a purchasing organization, particularly when he begins in purchasing immediately after graduation. A graduate going directly into purchasing, however, will lack the broad experience necessary for the range of advice and counsel which we anticipate here. For this reason, starting in 1943, our company moved the outside inspection force bodily from the engineering department to the purchase and stores department, and in 1946 fitted them into our staff-line organization. The chief inspector was made supervisor of inspection, expediting, and quality control on the department manager's staff. He was made responsible for overall procedures, expenditures, and advice and counsel to the line groups. A chief inspector was established in each of the two geographical divisions, each having four inspectors under him. Each member of the group had some years of refinery or field-engineering, inspection, and operating experience. A system was also established to make use of commercial inspection agencies in outlying areas and to provide men for peak requirements in work load. The buying groups are similarly organized in staff and line so that our individual engineers work beside and on the same organization level with the individual staff and line buyers with whom they cooperate.

Qualifications

Job descriptions are established for each level. These include minimum qualifications which a man must possess in order to begin a job.

Line inspectors are in three categories: Trainee, Class B, and Class A. While we prefer technical college graduates, we have found that a man who has only two years of college often develops into an excellent inspector. Two years of college provides sufficient background in mathematics, chemistry, and physics for learning much of the work and establishes some habits of logical thinking and studying. However, prospects for ultimate advancement probably are not as great as they would be for a man with a college degree.

It is best to start new men as refinery or oilfield equipment inspectors, or equivalents, in order to provide them with practical background before sending them into the suppliers' plants. The new men are provided with a set of inspection instructions supplemented by more detailed treatises on various subjects, such as welding, castings, non-destrctive testing, steel fabrication, gauging practices, etc. Each man is assisted in learning these subjects thoroughly. They

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are also assisted in a reasonable manner to go on with their formal education if they desire it. A system is also used to inform each engineer when lessons are learned by experience or when good or unfortunate results are obtained by others. Furthermore, daily work is programmed with continually increasing responsibility being assigned to an individual, consistent with his ability to absorb. As opportunities arise, the engineers are given experience in buying. We attempt to give each engineer a well-rounded experience. We avoid specialization because we have found individual preferences and abilities provide sufficient variety in the direction of specialization.

In addition to providing our inspectors with reading matter on the experience of others, we attempt to broaden them and refresh the experience of each inspector by temporary transfer during our infrequent periods of low work load. They can be loaned to refinery-equipment inspection groups, to construction materials handling, to the engineering department, etc. We have within our company a correlated plan for the exchange of personnel for such purposes. This involves the trading of men who are of approximately equal caliber for an appreciable period—six months to two years. In this way it is possible for us to give shop experiences to a design engineer by using him as an inspector, while our inspector may replace a refinery-equipment inspector who, in turn, replaces the design engineer.

To advance to division chief inspector, the purchase and stores engineer must display appreciable planning and supervisory ability. He demonstrates these qualities by the manner in which he organizes and executes his own work and that of the assistants and trainees provided to him. His ability is also evident when he substitutes during the absences of his immediate superiors. Some business acumen and an ability to get along with people is also essential.

In order to go on to higher positions or to move into actual buying or analytical work in a purchasing organization, the engineer must become more agile in his approach to problems. His formal education teaches him to be coldly logical—a logic based on physical facts and technical assumptions. Purchasing puts him into much closer contact with people and it requires that he work more with intangibles, such as logic, tolerance, give-and-take, and human relations. These become his tools—equal to or possibly more important than his engineering tools.

Future plans include trainee buyers with engineering degrees. These men may or may not serve temporarily with the inspection group. No emphasis is placed on any specific degree. We have civil, chemical, electrical, mechanical, and metallurgical engineers. Engineers with a masters degree in business administration have advanced rapidly in our group. Young men who changed their college major to business administration after two years of engineering have also done well.

Conclusion

We have found it quite logical in practice to have engineers as inspectors and expediters under the administration of purchasing management. I should like to summarize the reasons for this conclusion:

1. Obviously, engineers generally have the aptitudes and the training necessary to understand when material and equipment must be inspected and to be of real help in recognizing and solving delivery problems while expediting. They also provide the technical ability necessary to evaluate sources where quality is paramount in the choice of bidders.

2. Inspection and expediting are inseparable from buying because, in a legal sense, inspection and expediting are functions necessary in certain more complex purchases in order to reach agreement currently on terms and to see that the terms are met.

3. Inspectors and expediters deal almost continually with suppliers and contractors, which is a function of purchasing. Their combined experience and engineering education is of great assistance in guiding the buyer and the process engineers through the necessary steps for the procurement of highly technical equipment.

4. There is no clash with the engineering department or with operating groups so long as engineers of experience are employed—engineers who understand and operate within proper limits of authority and, when necessary, seek cooperation from the engineers for whom the equipment is being purchased.

5. Engineers as inspectors and expediters who have gained experience in purchasing not only see and understand things in the shops that buyers must know, but also can express themselves in concise terms which are of technical assistance to the engineering department and operating engineers.

In closing, I should like to point out that the engineer need not be lost in the purchase and stores department. The work develops characteristics necessary for management positions. It presents a variety of problems daily; it offers numerous opportunities to influence and guide others. Inspection and expediting require broadening experiences, such as travel, working with many people at all levels of business, and working alone away from home ties. These experiences are particularly good for an engineer because he must learn to quickly appraise complex situations in unfamiliar surroundings, analyze a maze of detail, and bring order out of chaos. He must be decisive while practicing compromise. Inspection and expediting and related materials-engineering consulting service in the purchase and stores department are fields in which to exercise individual initiative and growth and to influence developments. All of these are good and satisfying for the individual and are, therefore, profitable for the company because they develop habits and attitudes that are necessary in supervisory positions.

Our company has found that engineers are a profitable addition to our purchase and stores group.

Presented to the Petroleum-Industry Buyers' Group during the 36th Annual Meeting of the American Petroleum Inst. in the Conrad Hilton Hotel, Chicago, Ill., Nov. 13, 1956; presiding J. M. Courtwright, Shell Oil Co. of Canada, Toronto, Ont., Canada.

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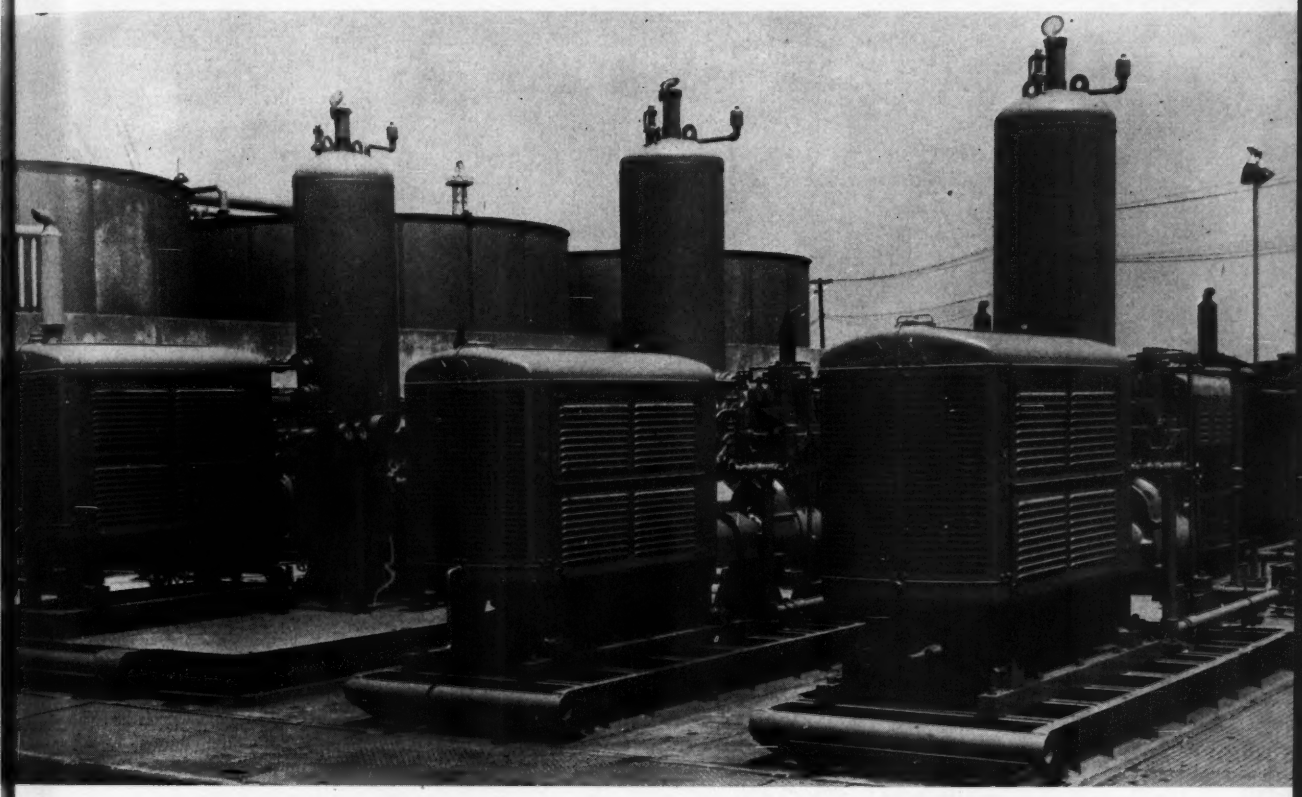

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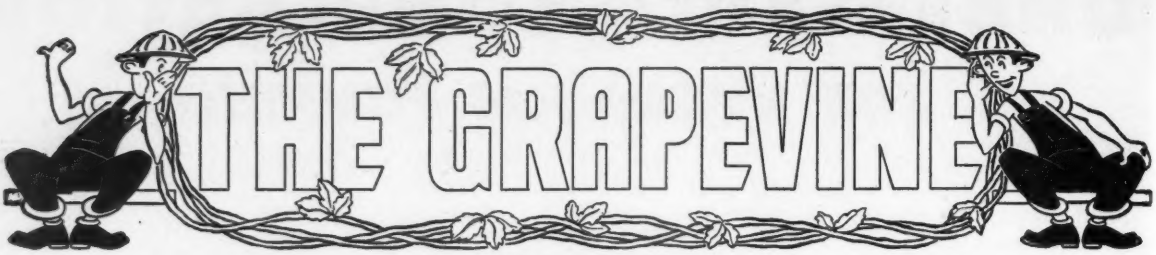

By RICHARD SNEDDON

Looking Backwards

It happened a bit too long ago for things to be in what you might call "sharp focus" now, but we do recall very easily that the Emsco-Youngstown Christmas cocktail conventicle and buffet dinner was quite the nicest thing of its kind we have ever attended. Don't know on how many of these affairs we have already inflicted our garrulous and flittering presence but we have noticed that although each one seems to reach the ultimate peak of entertainment perfection (stag-type, that is), the next one somehow always manages to be just a little better—a little more enjoyable. Perhaps it is because as we grow older our acquaintance broadens and we see more people we know. Certainly it is particularly pleasing to say hello and exchange chatter with ones we don't meet too often, but old friends or new, we never tire of mingling with the petroleum people—it is always a heart-warming experience.

The Party Begins

Besides offering an amazing selection of activating aquas and a buffet dinner that would titilate the appetite of the veriest gourmet, this year's more than distinguished congress brought together as interesting a consortium of derrick folk as you are likely to find anywhere. It took place just prior to announcement of the Continental-Emsco consolidation and we were right proud to greet and be greeted by Frank Brinegar, executive vice president in charge of distribution under the new order, whom we found to be what the English would definitely call "a good sort." After paying our respects to Bill Powell, the genial prexy of Emsco, and his Youngstown counterpart, ranchero Jack Crawford, we stalked boldly forward into the Embassy Room, and for the minute we thought we had landed in a Nineteeners' meeting. There in a cluster were Bob Fluor, Charlie Schriber, George Trembley, Paul Whiteley, Roy Johnson, Fox Boswell, George Suman, Fred Currie, Karl Kreiger, Gordon Tunnell, Charlie Napier, Lev Sacre, and even Jim MacDonald who we felt sure was climbing the Himalayas or cavorting around Khyber Pass or something.

Among Those Present

Actually, there were about 1000 guests at this aristocratic soiree, so if we merely do a once over lightly we hope to be forgiven by a lot of really important people. Among those we remember seeing here and there were Jim Kelley, the new president of the Petroleum Club of Los Angeles, also Jud Hillman and Markley Brown of the Hillman-Kelley enterprises; Teck Tecklenborg, noted Son of May First; Jim Barr, ditto ditto; Sam Patterson, the handsome Bankliner; Walt Hanline and Martin Mears, the Ventura barbecue experts; Ted Atkinson, the young Douglas Oil Company executive; Harry Campbell, the Bakersfield Caledonian; Hal Marsh, the GP production whiz; Jim Kibre, the lad who puts the wings on the flying horse; Doug Kingman, another flying horseman, and treasurer of PPP; Joe Gilliland, the globe trotter, just back from Turkey; Russ Green, the Signal Oil & Gas executive, famed for his multiple renditions of "You Never Can Tell"; Stew Hagestad, the drilling chap from Bakerstown; John Bell and Sam Barclay, a pair of high elevation Humbletonians; and we believe we saw Dick Faggioli making his second trip to the buffet.

Footage Experts and Poets

Then there were Gould Fitch, the aviating driller; Dick Von Hagen, the Lloyd Corporation chief executive, and Ben Bayliss, whom we regard as one of the industry's finest young engineers; John Grant, the immaculate one from Loffland Brothers; Bob Gray, the LBOD production biggie; Ed Pellegrin and John Robinson, a handsome pair from the McLeod stable; Pug York, the Bakersfield barbecue and footage expert; Malcolm "Bud" McDuffie, the man on the left; Bob Gentry and Ernie Pyles, the Monterey people; also Don Hare from the same, recently elected chairman of the Los Angeles Basin Chapter API; Jack Schmid, former Youngstown great, now National oil executive; Curly Working, the itinerant poet; Emery Squires, Cec Martin, and Don Purdy, a trio of substantial Richfielders; Rollin Eckis and Mace Hill, the exploration executives from the same august institution; Dorsey Straitiff, the Rocky Mountain Drilling Co. chief; John McEwen, the quiet mannered chap who took over at Rushing Drilling for the late Ray Love; and a stash of Shell people, including Jack Doyle, Bill Hobro, Bob Kettenburg, George Borchard, the epicure, Bill Chonette, Dutch Schmieder, and Bill Bates.

And Still They Come

Others noted were Don Grubbs, the OWS top hand; Elmer Wycoff, the National Tube ambassador; Hal Nisson, Paul Andrews, Kenny Dale, Dutch Lortscher, Ed Stroud, and Dan Johnston, a handsome delegation from Signal Oil & Gas Company; Monte Lindmoe and Earl Brock, the Siamese twins

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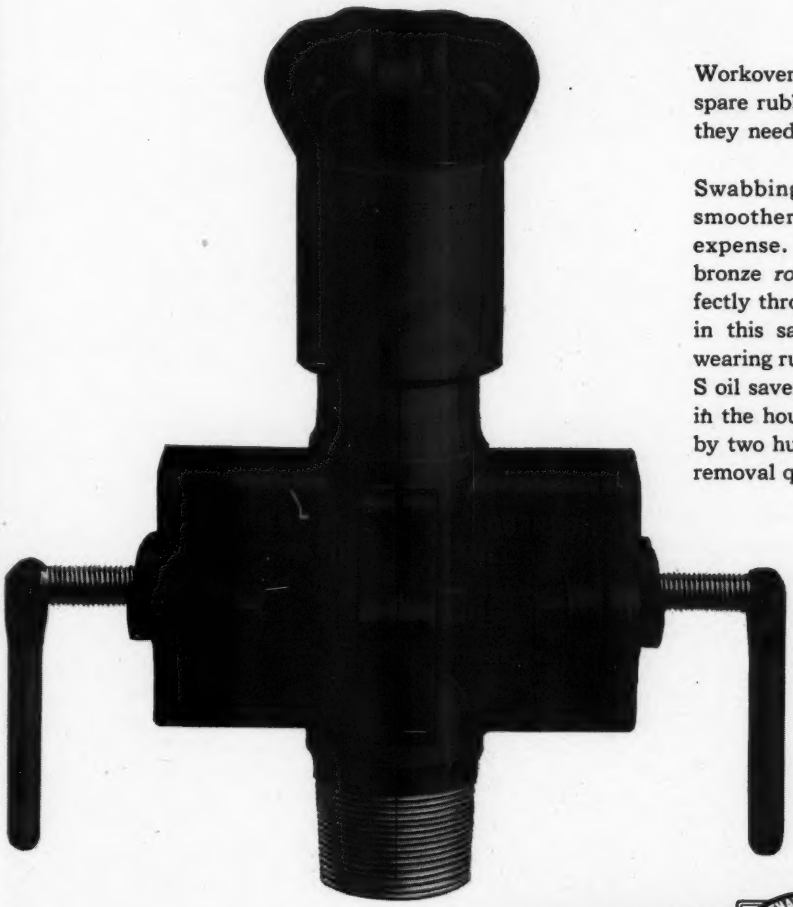

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THE STORY OF LIVE WIRE PETE

This issue at no extra cost brings to our panting readers intimate details in the life of that wonderful guy, R. G. "Pete" Garretson who, we are pleased to hear, is now over the hump following an extended joust with the medicos. Pete is one of the things for which Akron, Ohio, is famous. He was born there but received his early education at Rochester, New York; garnered some electrical know-how at Buffalo; and then became obsessed with the desire to see some of the remoter parts of the world. After much careful planning and preparing, he started out boldly for Lima but, bless his soul, when he arrived there he found it was just Lima, Ohio. However, he took advantage of the situation to attend Lima College for a spell and there added to his understanding of amps and ohms, some lowdown on chemistry and mathematics.

From about 1901 he foraged about the oilfields of Lima and later Geneva, Indiana, working as pumper, roustabout, and tool dresser, before coming out here to the Golden West in 1906. For a while he made his home with an uncle, George Parmenter, auditor for Standard of Cal., at Berkeley. When the Coalinga boom was at its height in 1908, he boarded a mixed freight and in no time at all was right in the middle of it as a member of SO Co.'s eastside construction staff. It was while installing the electrical equipment there that he was given the nickname "Live Wire Pete," which has since become shortened by attrition to Pete. When the camp was finished he went back to tool dressing in which he was given a sort of post graduate course by Walter Black, a mighty sharp mentor.

About this time, Fred H. Hillman, whom he had known as an Ohio Oil Company executive back in Lima, came to California to take charge of Standard's field operations, and Pete was beginning to feel more at home by the minute. He was presently promoted to drilling and in the same year married Cecelia, the oldest but far from old daughter of Simon Spellacy of Lima, member of a family that became prominently identified with subsequent oil development in the San Joaquin Valley. He worked on some of the Spellacy properties for a spell in production, performing also as a driller for Kern Trading & Oil Company over on the east side and then joined Baker Casing & Shoe Company, now Baker Oil Tools, Inc. That was in 1922 and for the last 35 years he has made many excursions into the scattered oilfields of the United States, promoting the use of a growing popular line of Baker drilling and production tools.

Pete is an always solicitous chap who has barged around the oil circuit for over half a century. He knows the field techniques of the industry thoroughly and the tantrums and temperaments of its people just as well. He is never happier than when he is in a gathering of old time oil men discussing the trials and vicissitudes of early days, and he is living proof of our often repeated assertion that despite their swashbuckling reputation, oil drillers and field men generally are fundamentally gentle souls with a real affection for their fellows.

As the accompanying illustration shows, his spare moments are devoted to the do-it-yourself cult of which he has been a student for some time. He has enough power equipment to build another Hoover Dam and uses it very effectively, although there was a time when Mrs. G thought his production would never get beyond the mass manufacture of shavings and sawdust. Pete's real hobby, however, is the petroleum people. He loves to be with them and he has a fine repertoire of oilfield lore from which he draws most appropriately to avoid what social engineers might call "gab inertia" or "conversational lag."

---

from Southwest Welding; Ed Thatcher, the noted Chevronite; Warren Johnson, Mal Morris and Bill Cochems from out Murphy-Coyote way; Dick Borden, the affable Sunray Mid Continent executive; Emmet Jones, Bill Tetsch, and Jim Gregory, from the Terminal enterprises; Tom Bell and Phil Hauck, a couple of Texas Company fire chiefs Bob Jackson, Long Beach representative of The Texas Co.; Bill Thornbury, newly elected director of the Petroleum Club; Martin Newell, the Tidewater philosopher; Graham Polk, that tall handsome chap from Time Oil; Charlie Perkins, the Los Nietos swiftie; and a lot of other Union Oilers, including Lou Kelsey, Truman Tinker, and Harold Keans.

Last but No Means Least

We vaguely remember, too, seeing Tom Wallace, the popular Gulf vice president; Ed Stearns and Duke Follansbee, Jr., from Universal Consolidated Oil Co.; John Abrams, the artistic independent; Ted Sutter, the Baker Oil Tools higher-up, and George Anderson, the caroling Scot, also from Baker; John Merritt, Bob Harcus, Bill Brooks, and Garth Nicholson, from the Byron Jackson institute of engineering; Bill Pemberton, the wildest of all the Wildcats; Sid Shuman, the Fluid Packed Pump biggie; Hal Howard, the founder and long time pilot of Howard Supply Company; Frank Smith, the BJ Service veep; Clarence "Kobe" Coberly and his sales genius, Pete Slater; John Neale; Mac McFaddin, the contract driller; Harry Hester, the Nomad prexy from McCullough Tool Company; John Spalding and Charlie Reichert from the blue iron outfit down Torrance way; Warner Parker, OW's divot lofter; Tom Sherman of the Hamilton-Sherman combine; Tom Lingle and Pep Hoffman, the Taylor Forge gin rummy sharpies; Bill Wilson, By Landis, and John Rife, a trio of yellow tigers; and Coach Jack Manildi, late of the Black Foxe Military Academy.

Some Acknowledgments

And before dropping this subject, we must pay tribute to others of the hosting group—Bill Kinder, now vice president of Continental-Emsco, especially, not only for the invitation to this lovely affair but for many kindnesses over the years; Dick Whelan, Youngstown vice president, Nineteener, and Jonathan Club insider, who has the smoothest disposition recorded since the passing of Job; Tiny Bush, the diminutive G.E. sales chief; Cliff Dunseth, handsome Youngstown sales whiz; and all the gang that helped to make this a really enjoyable and in all respects distinctly memorable evening.

Harvardian Comes to Town

Whom should we run across in downtown Los Angeles recently (apparently out here slumming) but that well known Harvardian from Houston, Tommy Johnston of the Johnston Tester Johnstons. After the initial salutation we had tried fruitlessly to amuse him with a couple of yarns that were older than basement rock whereupon Tom came back with one of his own which gave us quite a chuckle. It

goes somewhat as follows and slightly to wit: A rather odd sort of chap had made application for a job and was being questioned pretty closely by the company personnel interviewer. "What does your father do?" the inquisitor asked. "He don't do nuthin," was the prompt reply, "he's in jail." "And is your mother alive?" was the next question. "Certainly," was the just as prompt answer, "but she's in an insane asylum." "I'm sorry to hear that," muttered the personnel chap awkwardly but sympathetically, then continued, "Do you have any brothers or sisters?" "Yeah, sure!" said the job hunter, "I got one brother—he's at Harvard." "Well, fine," ventured the company man, hoping that things were at last going to take a more cheerful turn, "What is he studying there?" "He ain't studyin nuthin," was the ultimate stopper, "they're studyin him."

Gathering of the IBM Brigade

In an unprecedented outburst of domesticity, members of the Petroleum Accountants Society took their ladyloves with them to the annual Christmas party and came darn near outgirling the Moulin Rouge girl show, "C'est la vie!" We understand that Frank Sennes was so impressed by the generous display of pulchritude that he just can't make up his mind whether to invite the gang to come back, or not to come back. The accounting gals attracted almost as much attention as the chorines and it was a bit embarrassing to the latter to be looking at the backs of the people down front. The whole thing is another proof of what we have long contended—that the boys in this numbers racket are not only experts in the juggling of arithmetical figures but are pretty good judges of the female figure or form divine, as it is commonly known. Anyway, from what we hear the experiment was a pronounced success and is almost certain to become a regular event from now on.

GEARS FOR INDUSTRY
THE Lufkin LINE
OIL FIELD PUMPING UNITS

SC'S STUDENT OIL MAN

V. J. Fawcett

On the mornings of January 7 and January 9, at the University of Southern California, it was a real privilege to return to the "SC" campus as one of Professor Nick van Wingen's guest lecturers to the Senior Class in Petroleum Engineering.

Nick van Wingen is one of California's best known Consulting Petroleum Engineers and one of the industry's most popular guys.

Can't help thinking how fortunate these SC Engineering students are, to be getting the best possible theoretical training in the petroleum field, combined with the added effectiveness of receiving instruction from a seasoned, practicing professional petroleum engineering consultant.

Specialists in the fields of pumping units, gears, rods, pumps, engines, technical services and their part in the oil industry, are presented from time to time to bring to the Petroleum Engineering students the latest practical application of these products or services.

Lufkin is always glad to share its experience with Engineering students everywhere. Several times each year, groups of students are taken on conducted tours thru the factory at Lufkin, Texas. To Professor N. van Wingen students, we wish them every success in the years ahead, and, may I remind my fellow Trojans—at Lufkin, the welcome mat is always out!

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About the Show

Despite the counter-attraction, the show was an elegant one and the accounting people, in the current parlance of the vulgate, had themselves a ball. With the De Castro Sisters giving out plenty of zip and close harmony; the Wiere Brothers keeping everyone in stitches with their zany antics; and 50 (fifty) luscious lovelies filling the eye (and their costumes) to overflowing, everything was distinctly copacetic. Incidentally, the tall gal who plays piano for the Wiere Brothers is Mildred Seymour and she is by all means one of the finest pianists in these parts. We have heard her perform many times down at USC's Hancock Hall and why the Wiere boys don't give her a chance to do a solo we'll never know—she is really tops!

With Their Ladies, Too

Anyway, among those who deserted their IBM machines and slipsticks and came out to the Red Mill for an evening of unalloyed entertainment were Ray Stine, prexy of PAS, and his good lady, Judy, who last we heard were streaking back to Virginia by plane; a pair of perennial and eminently desirable bachelors, Jim Jackson, vice president of the organization, and Stu Durkee, director, who by the way is now open for congratulations, having been just named a vice president of Superior Oil Company; the Roy De Kay, he secretary-treasurer of PAS and a considerable attache of Ohio Oil Company; Warren Gamel, also a director, and noted Richfielder, with his stoutest supporter, Josie; Chuck Pierce, treasurer of Monterey Oil Company, and the keeper of the home exchequer; Cap Peterson, past president, with the Captainess, popular Shell folk; the Irvin Hancocks, high elevation members of the 7600; the V. T. Gilchrists, he Superior Oil Company comptroller; Bill Crooks, the General Exploration Company veep, with his other half, which is being mighty careless with fractions; and the Bill Neros, a pair of purple tritons who

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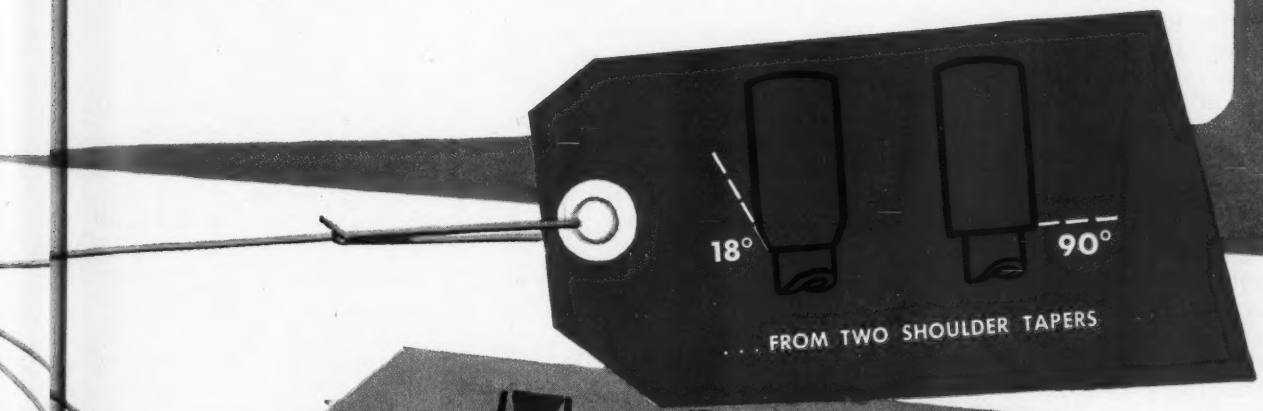

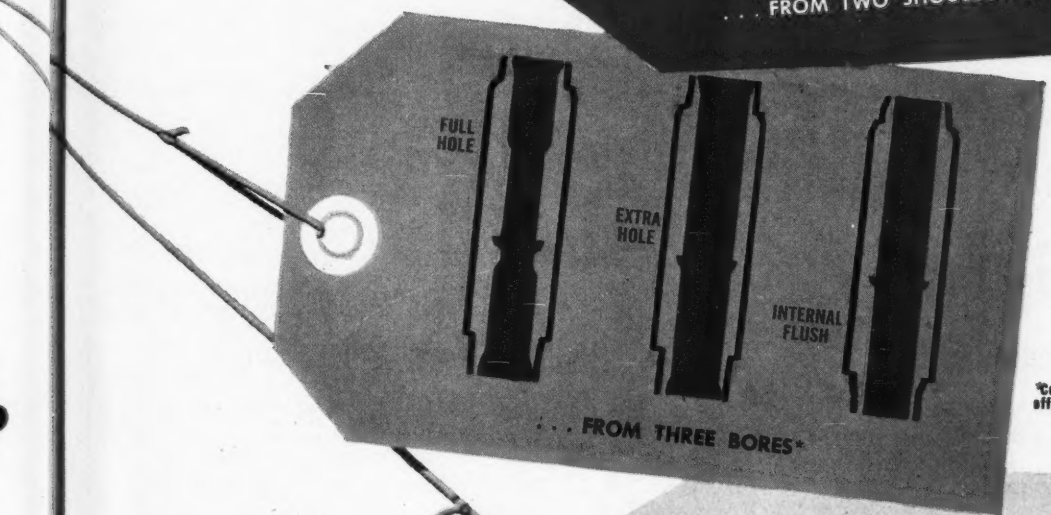

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didn't fiddle around when Rome was burning.

And "Miny Miny" More

Then there were the Mobilgas Duke boys, Roger & Clayton, and their permanent girl friends; Jack Farnan and the light of his life, Joe, also disciples of Pegasus; Norman Irwin, the Sunset chap, and Dave Todd, the Basin Oil Company treasurer, unescorted; Mac McComb and the Lady Mac from Hancock Oil Company; Bill Autry, Richfield comptroller, and Mrs. Bill; the Henry Stines from Sunray Mid Continent; the W. B. Thompsons of KNDA; a GP foursome consisting of Grant Hoover, Bill Horstman, and their respective and respected ladies; and as George Gobel would say, "miny miny more," to whom our profound apologies for limited space and a short memory.

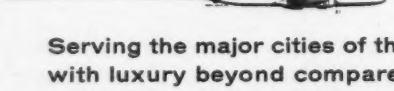
Hostesses & Scottie Dogs

Before concluding this report, we must not forget to mention the very gracious quintette of hostesses who did an admirable job of shepherding this diverse flock. They were Nina Patton, who keeps track of Roy DeKay's appointments; Frances Granfield, amanuensis to Gerry Krause of Signal Oil & Gas Company; Ethel Garland, Ray Stine's right arm; Marie Hentz, who takes Bill Nero's calls; and Gladys Pederson, who finds the lost letters for Jim Jackson. And we might add that very much in evidence at this arithmetical whingding was that Rothesay boy, Gordon Campbell, who functions nobly as assistant comptroller for GP and treasurer for the Petroleum Club of Los Angeles, and between times is a noted owner and judge of champion Scottie dogs. Frank Sennes, the Moulin Rouge impresario, has leanings in the same direction, but although his canines are actually of the same strain, they lack the broad Gaelic accent of the Campbell stock.

In the Lookbox

By the way of last minute roundup, congratulations to Dutch Schmieder on his appointment as chairman of the Southern California OIC, and congratulations to George Murray for a fine job in that spot last year! A nice note from Ed Waite, now resident in Sonoma, California. Bill Rintoul, the Bakersfield newsman, has taken over the job vacated by Dick Elwell at Mcgraw Hill News Bureau. It was a shock to learn of the death of Wendell Thayer, former local editor of Wall Street Journal, and widely known in California oil circles. Charlie Potter, the Bakerstown Standard Oiler, is now sufficiently recovered to play a bit of golf occasionally and even do some duck hunting. A card from Rex Hensel, datelined from Columbia University, would indicate that he might be back home some time before this appears in print. And that reminds us of the highbrow mud engineer who reported the use of "an ebony mud of ferocious glutinosity." Bill Bettis just arrived from Houston as we were finishing this compendium of small talk. And we hear that Bob Gaylord is the new Nomad prexy. It couldn't have happened to a nicer fella.

Champagne Flights



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Kaiser Steel Establishes Record

Steel shipments by Kaiser Steel Corporation hit an all-time record high in 1956, it was announced by Jack L. Ashby, vice president and general manager.

Kaiser Steel shipped 1,140,000 net tons last year, eclipsing its former record by 128,000 tons. The previous peak year was in 1953 when 1,012,000 tons were shipped.

Production records were established by the blast furnaces, the open hearth furnaces, and five of the individual rolling mills at Kaiser Steel's plant at Fontana, California. The company's iron ore mine at Eagle Mountain, California, and coal mines at Sunnyside, Utah, also achieved new production records.

Ashby said there were four primary factors contributing to Kaiser Steel's record year:

1—All the facilities at the Fontana plant were able to produce at maximum rated capacity or better. The three blast furnaces, which produced 1,410,737 tons of pig iron, operated at 107 per cent of rated capacity. Steel ingot production was 1,617,681 tons—105 per cent of rated capacity.

2—Steel demand in the West was at a peacetime peak, with consumption figures reaching 6,500,000 tons.

3—Kaiser Steel was not involved in the 35-day national steel strike.

4—Kaiser Steel has the West Coast's only blast furnaces and produces pig iron from company-owned raw material resources. Consequently, it was not handicapped by the Western shortage of steel-making metallics.

Ashby pointed out that almost half of the steel consumed in the West is received from outside the West.

"The West needs more local steel production," he said. "To help meet this situation Kaiser Steel broke ground last June on a $113,000,000 expansion program at our Fontana mill. This is believed to be the largest expansion of an industrial plant in the history of the West. By 1958, Kaiser Steel production will be increased 40 per cent."

Major Firms Nab Leases

Standard Oil Company and Humble Oil & Refining Company were awarded the lease on State Lands Parcel PRC-1824.1 as high bidders for this Summerland area offshore parcel in Santa Barbara County. Highest cash bonus bid was $7,250,606.95, with a 12.5% royalty for this 5500 acre block extending from the west limits of Summerland townsite three miles down coast and three miles out to sea. In July of 1956 Tidewater Oil Company was awarded a 500 acre block adjoining this acreage to the northwest.

Beehive Bend Try Makes Gas

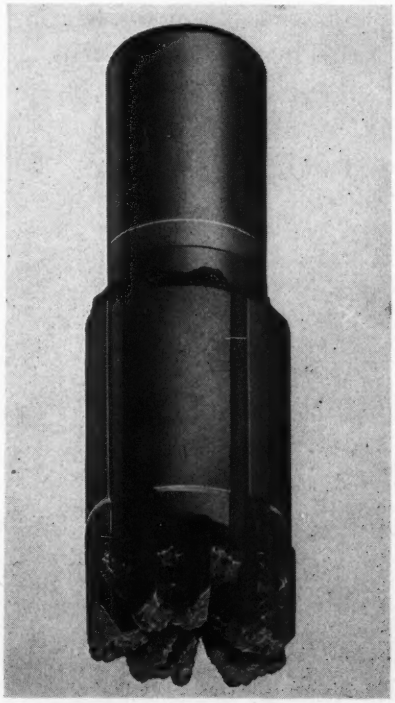
E. L. Doheny, Doheny-NG-GP Unit No. 2 on sec. 27-20n-2w in the Beehive Bend-Willows area of Glenn County, is drilling ahead below 6300 ft. after a formation test of the interval 5281-5341 ft. flowed 9800 MCF gas through a 44/64 in. bean. Brown Drilling Company is the contractor.

New Servco Junk Mills

The new Servco Junk Mills were designed to mill junk inside the casing, drill complete bits which have been lost in the hole, and for clean-out work.

They are similar to Servo CA Whipstock Mills now in wide use, except that the blades of the Junk Mills are more heavily webbed with Servcoloy*, a revolutionary new process which suspends particles of tungsten carbide in a tough, elastic matrix so that hundreds of cutting edges are always in contact with the surface to be cut. As particles are worn away or torn from the matrix, new cutting edges are automatically exposed.

The new Servco Junk Mills are available in sizes from 3¾" to 11" O.D. Complete information is included in a new eight-page brochure available from the manufacturer.



*Pat. Pend.

A stingy husband, while out of town, sent his wife as a present a check for a million kisses. The wife, a little annoyed, sent back a postcard:

"Dear John, thanks for the birthday check. The milkman cashed it for me this morning."

Diner—"Waiter, these veal chops are as tough as leather!"

Waiter—"Why, sir, I can assure you that less than a month ago these very chops were chasing a cow."

Diner—"Maybe so—but not for milk."

The telephone rang and Mrs. Brown answered it. "I'm sorry," she said, "but John can't go out tonight. He fell downstairs with two pints of whiskey."

"Did he spill it?" came the shocked voice over the phone.

"No, he kept his mouth shut."

"You can't marry her without permission," said the girl's father to the young suitor.

"Why not?" asked the eager swain.

"Because she's a minor."

"You mean I've got to ask John L. Lewis?"

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Field Development

Shell Finishes Strand Driller

Shell Oil Company, which is actively developing the deep zones in the Strand field some 12 miles south of Bakersfield in Kern County, hit pay dirt again when its Posuncula KCL No. 81-12 finished in the Stevens zone interval 9538-9597 ft. flowing 377 B/D clean oil and 177 MCF/D gas through a 28/64 in. bean. Camay Drilling Company was the contractor and is currently drilling KCL No. 37-3 for the company in the field. Graham & Klassen Drilling Co. is also working for Shell here with KCL No. 84-21 currently drilling below 9820 ft. Shell is also running a string of company tools on Posuncula KCL No. 58-6, which is below 9214 ft. at press time.

Shell is rapidly developing its 2000 acre leasehold and is planning to extend to an additional 15,000 acres covered by option agreement. The rich Basal Stevens pool is being developed on a one well to 20 acre basis, while the equally rich but somewhat deeper Vedder sands are spacing out on a one well to 40 acre plan.

Texaco Plans Deep Driller

The Texas Co. is actively engaged in leasing in and around the old Buttonwillow gas field some 28 miles northwest of Bakersfield with the intention of acquiring enough protection acreage to justify a 13,000 ft. or more test of the Stevens sands in the Miocene age section. Some 1900 acres have already been inked with some 1297 acres having been taken from Southern Pacific Company covering all of sec. 7-28s-23e and portions of secs. 1-28s-22e and 17-28s-22e.

Occidental Starts Rosecrans Try

Occidental Petroleum Corp., which acquired one-half of the North Dominguez holdings of J. K. Wadley, has started McKinley No. 1 in search of a new fault block between the Rosecrans and Dominguez fields in Los Angeles County. Lee Daniel has the drilling contract and is making hole at a location 110 ft. north and 300 ft. west from the c/l's of Clymer Avenue and 156th St. on sec. 20-3s-13w.

Urban Deep Try Readies

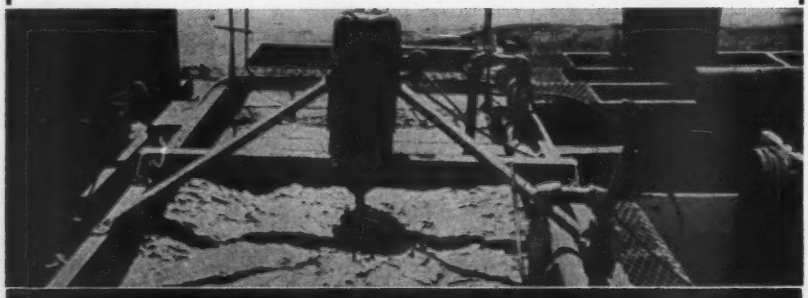
Plans to explore to depth under the old L. A. City fields near Beverly and La Cienega Blvds. are rapidly coming to fruition. Morgan Brown, Inc., which has been granted municipal approval for its extensive operation, is extending its leaseholds to encompass the area bounded on the east and west by Fairfax Blvd. and Robertson and on the north and south by Wilshire Blvd. and Rosewood.

While actual drilling operations will be confined to a two acre surface site at Beverly and La Cienega, modern, silent slant-hole drilling will enable the whole range to be developed and produced without physical disturbance to this intensely valuable and highly improved urban property covering an area approximately one and one-half miles square.

Upon the completion of the leasing program the company is prepared immediately to begin a wildcat which is expected to prospect to the 12,000-13,000 ft. level.

JEL-OIL EMULSION MUD

The steady improvement of Jel-Oil Emulsion Mud after ten years of service to the industry has made it a dependable and economical drilling fluid for drilling all types of oil wells. Satisfactory gel strengths, viscosities and low filter losses are maintained at a very economical cost.



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Continuous dumping of cement or chemicals. Has no ports or sleeves to foul.

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Santa Maria: 1767 S. Broadway, WAlnut 5-4163
Denver: P. O. Box 8875, University Park Station, Phone SKyline 6-6386

Harbor Grants Drilling Rights

At a meeting of the Los Angeles Board of Harbor Commissioners, Standard Oil Company of California and four affiliates were granted permission to drill for oil in the Los Angeles inner harbor, on an area of approximately 1350 acres. Acting in concert with Standard Oil were G. E. Kadane & Sons, Frank J. Waters, James J. Arditto and Noah Dietrich. Originally these four independent oil executives had bid separately on the 1350 acre tract. Recently they amalgamated with Standard in a single proposal covering oil and gas leases and royalties to be paid the Harbor Department in the event oil is found.

Hancock Oil Company and Wood-Callahan Company of Los Angeles also were interested in the leased property. However, these two firms did not submit any firm royalty proposals to the L. A. Harbor Commission.

Standard Oil and the affiliates plan to drill one well, at an estimated cost of $250,000, and as many additional wells as may be mutually agreed upon during the term of a 20-year lease. Standard Oil and the affiliates will pay the Board of Harbor Commissioners the sum of $100,000 as a cash bonus, whether oil is found or not, and $20,000 annually, for a period of five years commencing on the date when the permit to drill becomes effective. The annual payments of $20,000, in addition to the $100,000 cash bonus, will be paid in advance, to be credited against royalties paid each succeeding year should oil be found. In the event of oil discovery, Standard and its associates will pay royalties of 30 percent on less than 100 barrels per well per day. This rate will increase on a sliding scale up to 50 percent on 250 barrels per well per day.

The 1350-acre tract where oil drilling will commence, already has several wells in operation by other oil companies. These wells are located only in the southern area of the tract.

Union-Hancock Well Completed

Union Oil Co. of Calif., Operator Union-Hancock-Bowlus-Schuman No. 44-21 on sec. 21-31s-29e in the Mountain View area of Kern County, completed at 10,026 ft. flowing 1032 B/D clean 28.5 gravity oil and 570 MCF gas through a 24/64 in. bean from the perforated intervals 9659-9721 and 9730-9983 ft. This completion is a northwesterly offset to its new pool discovery well, Stenderup No. 55X-21, and is on a large block of acreage surrounding the play in which Union holds a 75% interest, with Hancock holding the remainder. Clyde Hall Drilling Co. was the contractor.

Intex Stakes Extension Try

Intex Oil Co. has staked location for Law No. 22X-3, 750 ft. S. and 1100 ft. E. of the N.W. corner of sec. 3-29s-27e in the Kern Front-Fruitvale district of Kern County. The current try is the second attempt to duplicate the production discovered by the company with Law No. 11-3 in the Law Pool to the northwest, which is yielding an average 40 B/D clean 20.5 gravity oil from the interval 2903-20 ft. Miller & York has the drilling contract. The first attempt at extension, Lerdo No. 58, abandoned at 3116

ft. after formation tests, recovered only water.

Cuyama Test Well To Start Soon

Porter Sesnon, Barbara Sesnon Cartan and Wm. T. Sesnon, Jr., Tenants in Common, have announced plans to drill Sesnon-Rheem-Richfield-Russell No. A-83-22 as a 6000 ft. try one and a quarter miles northwest of production, at Cuyama Valley in Santa Barbara County. The location is northeast of corner No. 27 of Rancho Cuyama No. 2 or some 3650 ft. north and 5100 ft. east of the S.W. corner of sec. 22-10n-12w. Knight & Williams have the drilling contract.

Mount Poso Pool Limits Move North

Richard S. Rheem, Operator, Newberry-Gibson No. 2, sec. 32-28s-29e at Mount Poso field in Kern County, is preparing to run casing after logging satisfactorily at 2203 ft. The current well, drilled under contract by Enterprise Oil Co., indicates a northerly extension of the sands, producing an average 40 B/D clean 16.5 gravity oil from the interval 1760-1994 ft. in the discovery well.

Bay Area Well In

Neaves Petroleum Developments' Neaves-Union-Lane No. 3, drilled on a farmout from Union Oil Co. on sec. 17-7s-4w in the La Honda area of San Mateo County some 40 miles south of San Francisco, completed at redrilled depth of 1793 ft. flowing a 480 B/D rate clean 31.5 gravity oil through an 11/64 in. bean. Settled production is 100 B/D through a similar orifice. Gold Metals Cons. Drilling Co. was the contractor. The Operator is planning an immediate start for No. 4 some 500 ft. to the east of this production.

McClung "Cat" Makes Test

The Superior Oil Co. Wesco-Clark No. 44-33 on sec. 33-29s-26e is fishing bit and junk from bottom at 7756 ft. after a formation test of the Miocene age Stevens sands indicated that substantial production of good oil is assured. Located some eight plus miles west of Bakersfield, a half mile north of the old McClung field and a mile and a half south of the Greeley field, the wildcat is reported by field observers to have flowed in excess of 1000 B/D on the test. Superior admits only that a 39 minute test of the interval 7701-27 ft. flowed clean 35 gravity oil at an unestimated rate. The company plans, after cleaning out the junk, to core ahead for a look at the entire expected geological sections. The work is being done with company tools.

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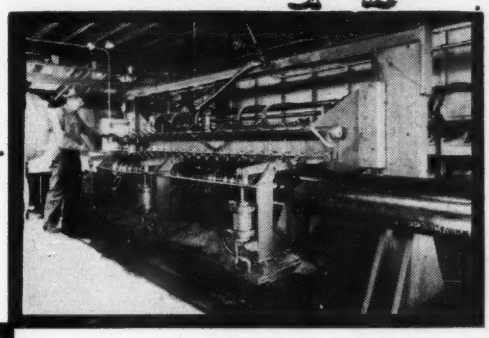

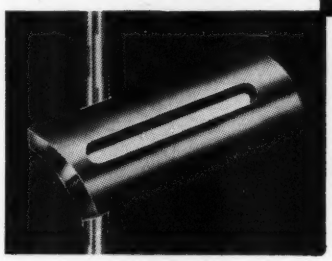

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Midway Peak Well Standing

Sunset International Petroleum Corporation Conoco-Gonyer-USL No. 2, 950 ft. north and 3520 ft. west of the S.E. corner of sec. 32-32s-23e in the Midway Peak-Gonyer Anticline area of Kern County, is deliberating its future after running a log with reportedly meager results to bottom at 2805 ft. Barnes Core Drilling Co. is the contractor.

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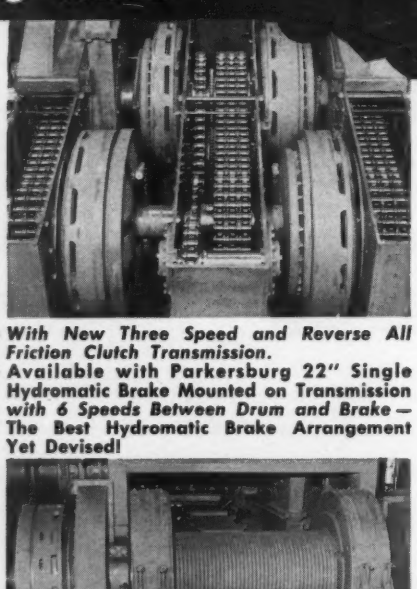

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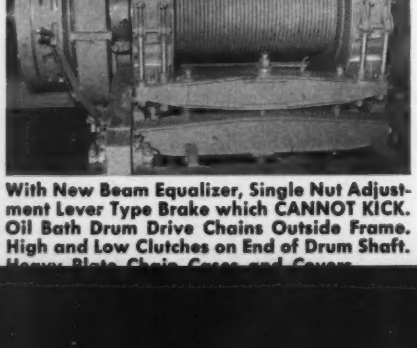

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Mountain View Gets "Gasser"

Contract Electronics Corp., Inc., Arcaro No. 1, sec. 9-31s-29e at Mountain View in Kern County, completed in the over-all perforated interval 5837-6374 ft. flowing 2000 MCF gas daily through a 17/64 in. bean under pressures of 950/1250 lbs. Gene Reid Drilling, Inc., was the contractor.

Sutter City Outpost Tests

Buttes Gas & Oil Co. Sutter City Community No. A-7, one mile northeast of production in sec. 9-15n-2e at Sutter City in Sutter County, is preparing to make open hole tests after encountering gas showings and running electric log to bottom at 2500 ft. Gene Reid Drilling, Inc., has the contract.

Gulf to Test Basement Try

Westerly Gulf Oil Co. Bloemer No. 44-21, sec. 21-30s-29e in the West Edison area of Kern County, is preparing for production trial after bottoming in Basement material at 5509 ft. and plugging back to 5445 ft., with top of the Basement placed at approximately 5410 ft. Seven inch casing is cemented on the plug for gun perforation and subsequent trials. Casey & Montgomery are the contractors.

Media Agua Creek Try Abandoned

MacDonald-Woodward Exploration Company Twisselmann No. 1, in the southeast quarter of sec. 15-28s-19e at Media Agua Creek in Kern County, abandoned at 1352 ft. after running electric log to bottom and taking 10 sidewall samples to prove all sands barren. Hagestad Drilling Co. was the contractor.

John Wayne Test Quits

John Wayne No. 1, sec. 31-10n-33w at Santa Maria in Santa Barbara County, abandoned at 4539 ft. after logs and cores recorded no showings. Casner & Bentz Drilling Co. was the contract driller for Wayne.

Carbon Canyon Well Converts

Albercalif Petroleums, Ltd., Columbus-Rexall-Stoody No. 30-4, Middle Puente-Middle Miocene test of the Carbon Canyon area of San Bernardino County, bottomed at 3767 ft. and is converting to a water well for agricultural purposes after cores were poor, with only a few showings reported at the 2290 ft. mark.

Southeast Burrel Pool Discovery

Occidental Petroleum Corporation Burrel No. 62A-7, sec. 7-17s-19e, completed as a new pool discovery in the over-all perforated interval 6436-6529 ft. flowing 208 B/D clean 31 gravity oil through a 10/64 in. bean with 200 MCF/D gas. Drilled by Green & Heiser Drilling Company under contract, the well lies in a 2000 acre block at Southeast Burrel in Fresno County.

Reef Ridge Gets Test

Golden Bear Oil Company and John D. Manley III are moving in to drill Mauren No. 31-X-16 on sec. 16-23s-17e at Reef Ridge in Kings County. Casey & Montgomery Drilling Co. have the contract to take the test down to 7000 ft. for a look at the Temblor section. The wildcat lies approximately one-quarter of a mile southwest of the Sunray Oil Co. Lynch-Mauren No. 68-9, which abandoned at 11,962 ft. in May of 1951 after once recovering a small amount of 23.8 gravity oil.

Gen. Expl. Finds Bandini Deep Pool

General Exploration Company, operator of a sharing group of local producers, is completing CWOD No. 24 from newly discovered Miocene sands at 26th Street and Eastern Avenue in the Bandini or East Los Angeles area of Los Angeles County.

Bottomed at 9484 ft., the well finished in the Miocene perforated interval 8329-8561 ft. swabbing and flowing by heads at a 320 B/D rate clean 35.5 gravity oil and is currently rigging pump for a more efficient production program.

With General Expl. holding a 20% interest in the new strike, other interested companies are Basin Oil, Bolsa Chica, Christopher Oil, National Oil and Union Oil Co. of Calif.

General Exploration has 21 other wells on its 1200 acre Bandini field leases, all of which are producing from the shallower Pliocene sands. Fowler Drilling Co. was the drilling contractor for this field development.

Gato Ridge Well Quits

Terry Drilling Company Price-Ranch No. 8-39, sec. 8-8n-32w at Gato Ridge in Santa Barbara County, abandoned at 2700 ft. after a series of down-hole tests from 1960 ft. failed to effect production. Santa Maria Prod. Service was the contractor. The firm expects to proceed with additional wildcat exploration within the next few weeks.

Honor Rancho Wells Continue to Flow

New development in the Honor Rancho field of Los Angeles County continues to add substantial production reserves to the California picture. Latest completed were The Superior Oil Co. N. L. & F. No. 7, on sec. 8-4n-16w, which finished in the interval 9101-9538 ft. flowing 1050 B/D clean 35.1 gravity oil through a 20/64 in. bean and The Texas Co. Honor Rancho No. A-22, on sec. 7-4n-16w, which is making 1168 B/D clean 38.0 gravity oil and 1169 MCF/D gas through a 21/64 in. bean under 1475/550 lbs. pressure from the open interval 9628-9850 ft. Texaco's Honor Rancho No. A-16 also completed at 9780 ft. in the interval 9331-9755 ft. flowing 1218 B/D 35.8 gravity clean oil and 914 MCF gas through a 21/64 in. orifice.

Union Bardsdale Pool Discovery

Union Oil Co. of Calif. Irwin-Berylwood No. 2, sec. 12-3n-20w at Bardsdale in Ventura County, is rated as a deeper pool discovery with its substantial completion in both the Santa Susana and Berylwood zones. Finished at plugged depth of 8575 ft. from perforations open 4675-4975, 5175-5320 and 7820-8498 ft., the well initialed 723 B/D clean 31.9 gravity oil through a 28/64 in. bean. Settled production with both zones open is Santa Susana, 331 B/D 27.8 grav. 0.3% cut 21/64 in. bean, 1180/165 lbs. 100 MCF and Berylwood, 412 B/D 33.5 grav. 10% cut 24/64 in. bean 410 lbs. and 542 MCF gas. K. L. Kellogg & Sons were the drilling contractors.

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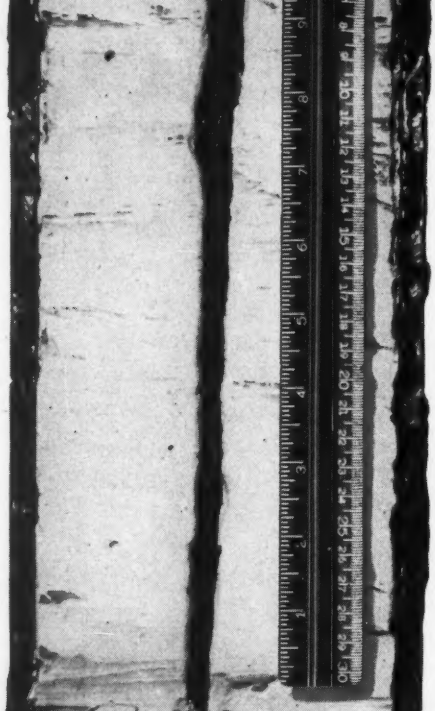

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deepen Geis-Robertson No. 24, sec. 12-3n-20w, from present depth of 6245 ft. to some 10,000 ft. K. L. Kellogg & Sons have the contract for this job which lies some 1000 ft. due east of the new discovery well named above.

Standard Gets Oxnard Well On

Standard Oil Co. has completed E. J. Diedrich Comm. No. 2 in the Oxnard field of Ventura County flowing 421 B/D clean 24.9 gravity oil through an 11/64 in. bean under 1025/860 lbs. pressure with 127 MCF gas. The production is coming from the open interval 6320-6436 ft. Casey & Montgomery drilled the new producer which is located 900 ft north and 1200 ft. west of the S.E. corner of sec. 2-1n-22w.

Shell Saticoy Well to Tanks

Shell Oil Co. Edwards No. 6, sec. 31-3n-21w at Saticoy in Ventura County, went to the tanks flowing 690 B/D through a 16/64 in. bean. Present settled production is 449 B/D 0.2% cut 14/64 in. bean and 1050/525 lbs. pressure from perforations open in the intervals 6994-7308 and 7350-7405 ft.

So. Mountain Well Solid Producer

The Texas Company Texas-Union-Richardson Ranch No. 2, sec. 13-3n-21w in Ventura County, completed for a solid 1294 B/D rate from perforations open 7382-8650 ft. Haney & Williams were contractors on the good well which is presently recording 1018 B/D oil cutting 3% and 719 MCF gas through a 24/64 in. bean under 650/900 lbs. pressure.

On the adjacent section 14 the company's Texas-Union-Hyde-Pinkerton No. 3, finished in the intervals 6417-7932, 7089-8330 ft. flowing 878 B/D oil and 639 MCF/D gas through a 22/64 in. bean under the direction of International Drilling Co. as contractor.

Beach Extension Well Scheduled

Paul F. McKenzie will seek to further extend Huntington Beach field production in Orange County with Diane No. 1 to be drilled 685 ft. north and 185 ft. east of the C/L of Florida Ave. and Quincy Street on sec. 2-6s-11w. The projected try lies some 800 ft. southeast of the Atlantic-Miller & Ford extension well No. 11 which completed last week in the interval 2800-2927 ft. pumping 229 B/D 22.9 gravity oil cutting 1.2%.

Oceanic Tanks Midway Oil

Oceanic Oil Company, General American No. 5, sec. 16-32s-23e in the Midway-Sunset field of Kern County, turned to the tanks flowing 241 B/D 23.2 gravity oil cutting 5.1% through a 14/64 in. bean. The production is coming from the Upper and Lower Republic Sands interval open 4374-4564 ft. Knight & Williams were the contractors.

Prado Dam Try Slated

A 2000 ft. wildcat test of the Prado Dam area of Riverside County is being readied by U-Tex Oil Company. The drilling will be contracted at a point 2000 ft. south and 700 ft. east of the northwest corner of sec. 29-3s-7w.

Richfield Well In

Dick Walker and Palomar Oil & Refining Co. Palomar No. 4, sec. 28-3s-9w at Richfield in Orange County, is currently pumping 40 B/D gross rate 18 gravity oil cutting 25-35% and cleaning up. The oil is coming from the perforated interval 3120-3289 ft. Wells Drilling Company was the contractor.

San Benito Co. Gets Good Well

The Vallecitos area of San Benito County was enriched with another good producer when Shell Oil Co. F & I No. 47-31, on sec. 31-16s-11e, completed in the open interval 3140-3415 ft. flowing 465 B/D clean oil and 138 MCF gas through an 18/64 in. bean. Miller & York were the drilling contractors.

Upland Try Scheduled

C. O. Brand of Riverside plans to drill a wildcat test some five miles northeast of the town of Upland in San Bernardino County. Scott Drilling Company has the contract for the well to be put down 2420 ft. south and 100 ft. east of the north quarter corner of sec. 1-1s-7w.

Norwalk Test Running Deep

Standard Oil Co. of Calif. Rivera Community No. 1, on sec. 21-3s-11w southeast of the town of Norwalk in Los Angeles County, is conditioning hole after reaching 11,749 ft., running electric log, dipmeter and sidewall sampling. K. L. Kellogg & Sons have the drilling contract on this deep Los Angeles Basin wildcat.

Newhall Try Goes on Hook

Rothschild Oil Company Bermite No. 1, on sec. 25-4n-16w some two miles northeast of the town of Newhall and one and one-half miles northwest of Placerita field production in Los Angeles County, was abandoned at an unfruitful 4719 ft. after running electric log to bottom.

Ventura County Deep Cat Quits

In the Fairview Canyon area of Ventura County an interesting wildcat has hit the suit-case sand. The Texas Co. Lawton No. 1, midway between the Shiells Canyon and Hopper Canyon fields on sec. 27-4n-19w, plugged and abandoned at 17,485 ft. after electric logs and sidewall samples failed to evoke hopes of production.

A drilled depth of nearly three and a third miles is no longer singular, but it is startling to consider how few years have elapsed since wells of today's commonplace production depths were hailed as world's records and the end product of man's mechanical genius—how drilling science has progressed.

New Springs Pool Found

Western Gulf Oil Co. chalked up a new pool discovery to the Santa Fe Springs field of Los Angeles County when its Newgate Unit No. A-1 completed at redrilled depth of 9035 ft. Located on sec. 9-3s-11w, some 4000 ft. east of the southeasterly field limits, the well completed in the intervals 8790-8852, 8898-8989 and 9004-9032 ft. making 120 B/D rate 32.7 gravity oil and 160 MCF gas through a 16/64 in. bean. Haney & Williams were the contractors.

Personalities IN THE NEWS

Fain Joins Eastman

Mr. Ed Fain has just been named vice president and general manager of Eastman International Company, whose main offices are in Denver, Colorado. He has worked in the oil business for 18 years, and has had considerable experience in various phases of the industry, both domestic and foreign.

Ed Fain

After graduating from North Texas State College, he took a job with Geophysical Service, Incorporated. During the 10 years he worked with this corporation, Mr. Fain held several field positions, working as observer, computer, relief party chief, and in the laboratory, on instrument design and building. He worked for GSI in the U. S., Mexico, Venezuela, and India.

In 1941, Mr. Fain took a job as instructor and engineer for Aviation Enterprises in Houston. Leaving this job in 1942, he entered the Navy, and was in Naval Aviation from that time until 1946. Mr. Fain was stationed at Rhode Island, Washington, D. C., Dayton, Ohio, and Kansas City (Pratt and Whitney Aircraft Corporation). In the latter location he held the rank of lieutenant commander, and was commanding officer.

Leaving the Navy in 1946, Mr. Fain went to Washington, D. C., where he served as a consulting engineer for the National Housing Agency. In 1947 he became associated with the Geotechnical Corporation of Dallas, Texas, in the capacity of geophysicist and sales engineer. During the period between 1954 and 1955 he also did some consulting work for Hunt Oil Company, working in Libya and Pakistan on concession negotiations. In 1955-56 he managed an exploration program in Switzerland and Italy for a group of companies, The S.N.I.A. Viscosa of Milano, Italy, through their subsidiary Terra Apulae, and Mofag, of Zurich, Switzerland. In 1956 Mr. Fain joined the Remington Rand Company in Denver, Colorado, working on electronic computation of petroleum problems.

Mr. Fain was born in Denton, Texas, in 1907, graduated from North Texas State College in 1930, and now resides with his wife in their Lakewood, Colorado, home.

Sisson Joins Monterey

An announcement by John R. McMillan, executive vice president of Monterey Oil Company, discloses the recent appointment of Harry H. Sisson to the important position of chief geophysicist. In his new post,

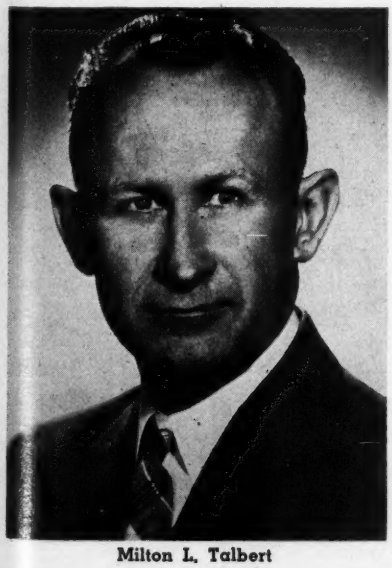
The newly elected officers for 1957 and the outgoing officers they replace shown at the Annual Business meeting of the Los Angeles Chapter of Nomads, January 9, 1957. Left to right (standing). John S. Page of Page Oil Tools, Assistant Treasurer 1956; Andy Anderson of Pacific Perforating Company, Assistant Secretary 1957; W. B. Reinhold of Abegg & Reinhold Company, Assistant Treasurer 1957; H. Rex Collins, Jr., of Hydril Company, Treasurer 1956; John McEwen of A. D. Rushing, Inc., Assistant Secretary 1956; Joe Schlarb of Continental-Emsco Company, Regent 1956 and 1957; John Flanagan of Johnston Testers, Senior Regent 1956; J. Murray Walker of Lane-Wells Company, Deputy Sergeant-at-Arms 1956; (seated) Tom R. Ashe of Globe Oil Tools Company, Deputy Sergeant-at-Arms 1957; Earl M. Daniels of Hydril Company, Sergeant-at-Arms 1957; Ben A. Hilliard of Web Wilson Oil Tools, Treasurer 1957; Bob Gaylord of Wagner-Morehouse, President 1957 and Secretary 1956; Bill Brooks of Byron Jackson Tools, Inc., Vice President 1957 and Sergeant-at-Arms 1956; Tom G. Martin of R. J. Eiche & Associates, Secretary 1957 and Vice President 1956; Harry E. Hester of McCullough Tool Company, Regent 1957 and President 1956.

Sisson will maintain headquarters in Los Angeles and will be responsible for the company's entire seismic exploration program. This latter has become especially significant with the gradual spread of Monterey interest and its increased activity in offshore development, in which the firm has been a west coast pioneer.

Sisson, a native of Palacios, on the Texas Gulf Coast, is well equipped by education and experience for his assignment. He was graduated from University of Texas in 1940 with a B.S. in geology and physics, and later obtained his master's degree from the University of Houston. His interest in geophysics began long before that, however, when during summer vacation in 1930 he worked on a survey crew for Humble Oil & Refining Company. Later he served some six years as seismologist for Humble, and five more as a seismic party chief for General Geophysical Company. He came to Monterey from the Robert H. Ray Company of Houston, Texas, for which he had officiated during the past five years as chief seismologist.

Talbert Advances At Security

The appointment of M. L. Talbert as chief engineer for Security Engineering Division has been announced by C. L. Lane, president of this Dallas-based rock bit manufacturer.



Milton L. Talbert

In his new capacity Talbert will coordinate field and in-plant engineering functions in the development and manufacture of rock bits and allied drilling equipment.

A resident of China Springs, Texas, Talbert is a mechanical engineering graduate of Rice Institute and has been active in the engineering of drilling tools for the past twenty years.

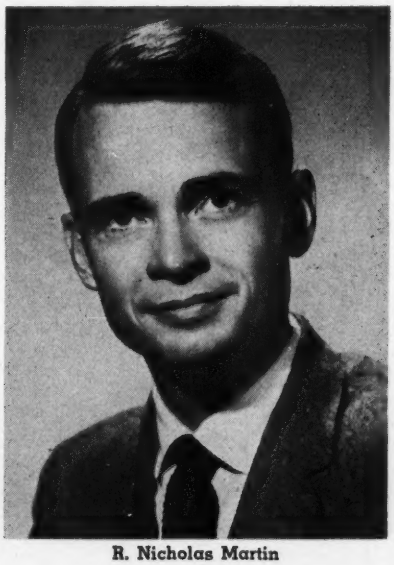
Mr. Talbert, formerly assistant chief engineer, replaces Carl Lichte who has joined the Turbo-Drill Division of Dresser Industries.

Security, one of the Dresser Industries, manufactures a complete line of rock bits and similar drilling tools for the petroleum industry. Other manufacturing plants are located at Whittier, California, and Manchester, England.

Oiltool Ad-Man Joins Ramsey, Brown

R. Nicholas Martin, for three years advertising manager of the Martin-Decker Corporation in Long Beach, has joined the staff of Ramsey, Brown & Co., Los Angeles advertising agency, where he will assist in servicing such oiltool accounts as BJ Service, Plicoflex, Inc., Pipeline Coating & Engineering, Commercial Iron Works, McGaffey-Taylor, Hydril, Hopper Machine Works and other oiltool accounts.

A major portion of his three-month training period on his previous job consisted of assisting service men in the installation and repair of Martin-Decker drilling-control instruments.



R. Nicholas Martin

Richardson Elected Treasurer of Tidewater

Russell D. Richardson has been elected treasurer of Tidewater Oil Company in addition to his present responsibilities as controller, it was announced by D. T. Staples, president.

Russell D. Richardson

Richardson started with the company 36 years ago as an accounting clerk at the Avon Flying A Refinery near San Francisco. He became chief accounting clerk in 1927, advancing to th post of assistant regional controller of Tidewater's western division in 1936.

He served as regional controller from 1939 to 1954, and in the latter year was named controller for the entire company.

Wendell Thayer Dies

Wendell G. Thayer, former executive director of the Pacific Oil Institute, died January 5 at St. Joseph's Hospital, Orange, California. He was 52.

Thayer was a former employee of the Conservation Committee of California Oil Producers and was with Union Oil Co. for several years. He also was former Southern California editor of the Wall Street Journal.

J. C. Kelley, president elect of Petroleum Club of Los Angeles, presents momento gavel to retiring president, Olen Lane, in testament to his successful term.

Kelley Heads Petroleum Club

At the annual meeting of the board of directors of the Petroleum Club of Los Angeles, on January 9, 1957, J. C. Kelley, partner in the firm of Hillman-Kelley, was elected president. He succeeded Olen Lane, vice president of Continental Oil Company in charge of west coast operations. The club, which has its quarters in the Statler Hotel, has approximately 1,000 members representing all phases of the petroleum industry. It was organized in 1948 by a group of members of the Oil Club. Other officers elected were: Vice president, T. H. Wallace, Western Gulf Oil Company; treasurer, Gordon D. Campbell, General Petroleum Corporation; secretary, R. Sneddon, manager of the Petroleum Club.

Funeral services for Carroll H. Tuttle, recently retired Southern Division Manager, Purchase and Stores Department, Standard Oil Company of California, were held at 11 a.m. Thursday, January 17, at the Church of the Recessional, Forest Lawn, Glendale. Mr. Tuttle died January 14th in the Fresno Community Hospital following a heart attack. He was 65 years old.

Mr. Tuttle joined Standard Oil of California in 1926 and retired last October 1. A native of Indiana, he came to California in 1903 and was a resident of Los Angeles for 16 years.

He served as president and national director of the Purchasing Agents Association of Los Angeles and was active in the Wildcat Committee of Western Oil and Gas Association.

He was a member of the San Gabriel Country Club, Los Angeles Athletic Club and Highland Park Lodge No. 382 of the Masonic order.

He is survived by his widow, Merle Vivian of Fresno; his son, Arthur, now in Iran on a special assignment for Standard Oil Company of California; and two grandchildren.

John McEwen Joins A. D. Rushing, Inc.

John McEwen has joined A. D. Rushing, Inc., drilling contractors, as vice-president and treasurer. They are operating five rotary drilling rigs in California, ranging in capacity from 4000 feet to more than 11,000 feet.

John McEwen

"Mac" has been active in oilfield equipment manufacture and contracting since 1921. A graduate in Mechanical Engineering from the University of Pittsburgh, he was chief engineer of Lee C. Moore Corporation, and subsequently chief engineer of IDECO and became vice president and general manager of the California Division of IDECO.

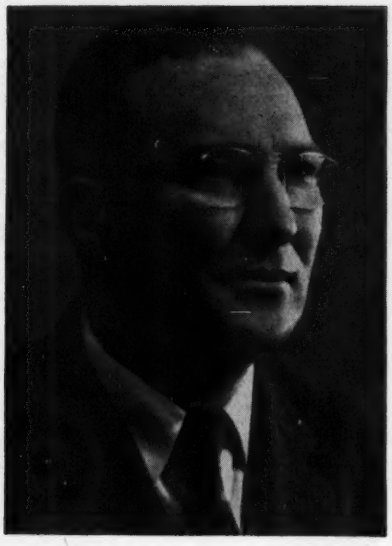
McEwen spent several years with drilling contracting problems as consultant to the California Drilling Contractors Association. He is located at 523 West Sixth Street in the Pacific Mutual Building.

Appointment of Captain R. M. Melbye to the post of marine superintendent, San Pedro, has been announced by Standard Oil Company of California, Western Operations, Inc. He succeeds the late Captain T. W. Peters.

Melbye, a native of Minnesota, joined Standard in 1920 as a deck officer and most recently served as mooring master at the offshore loading facilities near Standard Western's El Segundo refinery.

A resident of Rolling Hills, California, Melbye is married and the father of two sons. He served in the United States Navy during World War I.

Alton A. Dunaway, pictured above, has been appointed assistant vice-president of Distribution Operations of Continental-Emsco Company. Mr. Dunaway joined Continental Supply Company in 1936. He is a graduate of Louisiana Polytechnic Institute. He has performed credit work throughout the mid-continent area and has served from 1951 as assistant credit manager and assistant treasurer. Mr. Dunaway's new duties involve the distribution functions of Continental-Emsco district and division operations in the United States and Canada.

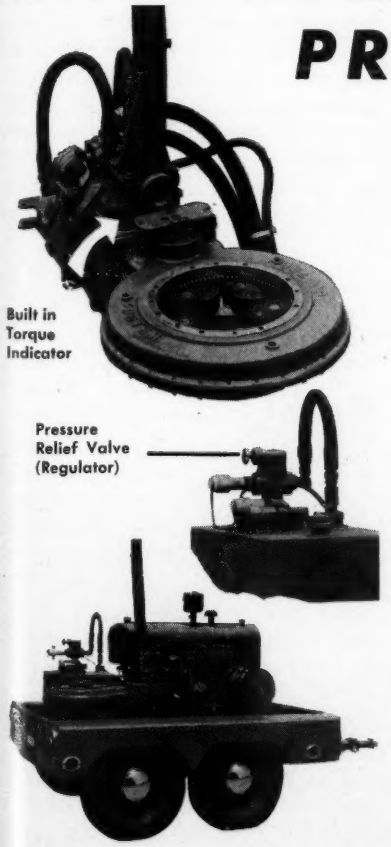


Macco Corporation announces the appointment of E. Van Dornick, pictured above, as vice president and corporation director in charge of their refinery and chemical division.

As a further step in the expansion of Macco service to these industries, Mr. Van Dornick brings to Macco clients a broad background of 20 years' experience in petroleum refinery and chemical plant design. He is a former director of engineering of the Oil and Gas Facilities Division of the Arabian American Oil Company.

"The Current Middle East Situation and Its Inseparable Factor, Oil," will be the topic of an address by F. C. Boucke at the 1957 Friendship Dinner of Bakersfield's combined professional women's organizations on February 7 at the Bakersfield Inn. Boucke makes headquarters in San Francisco and he is assistant to the vice president, Middle East affairs, Standard Oil Company of California. The hostess organization at the dinner will be the Desk and Derrick Club at Bakersfield.

If more than one mouse is mice,
And more than one louse is lice,
Then you must agree, quite obviously
That more than one spouse is spice.



PREVENT PIPE DAMAGE

with PRECISE FOSTER CONTROL

Foster TUBING TONG

The Foster Tubing Tong makes up every joint—uniformly—to precisely the tightness desired—thus assures proper tightening and prevents damage to pipe threads. To achieve the desired torque pressure you simply screw in the pressure relief valve until the torque indicator registers the desired torque, then set the valve lock nut. The torque pressure thus obtained is applied uniformly and automatically to every joint.

PREVENTS BITE

The tubing is never gripped on the bias. The tong is suspended on a LONG TONG HANGER, is counter balanced when installed, and moves up and down with the tubing. This feature not only protects the tubing against bite, but assures efficient operation with a very minimum of manual effort.
Specially designed dogs are another outstanding feature. They grip on the small or the upset, any size tubing from 2⅜" OD to 3½" OD without changing dogs. Extra dog sets are available for 1½" to 5½" pipe. This feature saves time and costs, and assures a positive, five-dog grip which minimizes tubing marking.

REDUCES MAKE-UP AND BREAK-OUT TIME BY TWO-THIRDS

The Foster Tubing Tong remains on the pipe for the entire trip, with no time lost in placing tongs on the pipe and removing them. Break-out time is reduced to 7 seconds, make-up time to 5 seconds—one-third the time normally required. More and more major and independent producers are specifying Foster Tubing Tongs to prevent pipe damage, and contractors profit by the tremendous increase in speed and efficiency.
Write today for Foster Tubing Tong catalog.

All Foster Representatives carry a complete inventory of spare parts for tongs and all models of Foster Catheads

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Rocky Mountain NEWS

Colorado—Idaho—Montana—New Mexico—Utah—Wyoming—Western Canada

Wyoming

Richfield Oil found shows in a core at 3535-88 feet at No. 2 Unit, c ne se 36-51n-92w, Big Horn County, and has run pipe to 3620 feet. The first test in this unit, which is southeast of Greybull, was abandoned.

In Campbell County, Tennessee Gas Transmission recovered 20 feet of oil and 60 feet of mud cut oil on a drill stem test of the No. 1 Cole, c ne ne 23-50n-76w. Recovery also included 2000 feet of gas.

The California Co. has found slight gas shows at its Nugget test in Sublette County. The well, No. 1 Unit, sw ne nw 14-27n-113w, is scheduled for 10,000 feet. At last report it was nearing 6300 feet.

Mobil Producing has completed a Dakota producer in Campbell County, the No. F-44-1-G Govt., se se 1-48n-69w. Production, from the interval 6763-71 feet, was 48 barrels of oil per day, cut by water 30 per cent.

Phillips Petroleum abandoned the No. 1 Silver, c sw se 10-57n-100w, in Park County, at a total depth of 9939 feet.

True Oil Co. is continuing tests at the No. 1 Govt.-Ritter, c se sw 31-32n-84w, Natrona County. A pump gauge of 75 barrels of oil per day has been reduced to 50 barrels at this extension of the Southeast Grieve discovery.

Nebraska

John W. McKnab recovered 1005 feet of oil on a drill stem test of his Cheyennne County wildcat, the No. 1 Rabass, c nw nw 23-15n-52w. Recovery was from the J sand at the interval 5307-17 feet. The well was drilled on a farmout from Magnolia Petroleum. It is a mile and a half from nearest other production.

The California Co. has reported no shows thus far at the No. 1 Deans, c sw se 28-31n-49w, Dawes County. Several cores have been taken. At last report operator was coring below 4235 feet.

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Miracle-Fifer Drilling Co. is installing pump at its Banner County discovery, the No. 1 Snyder, ne ne ne 27-18n-55w. Operator recovered 1560 feet of oil and 60 feet of mud cut oil on a drill stem test at 6163-80 feet. Swab tests recovered oil at the rate of 10 barrels per hour. Recovery was from the J sand, which was topped at 6140 feet. The discovery has set off a flurry of other activity in the area, including an eastern offset being drilled by O'Donnell and Edmondson at the No. 1 Nagel, c nw nw 26-18n-55w.

T. C. T. Corp. and R. L. Wiskser hope to have a dual-zone producer at the No. 1 Leonard, c ne sw 20-13n-55w, Kimball County. Operators swabbed 16 barrels of oil per hour from the J sand through perforations at 6442-61 feet. They are perforating the D sand. Oil was recovered from both zones on drill stem tests.

Two miles northwest of Beaver City, Falcon Seaboard Oil will drill a wildcat in Furnas County, the No. 1 Jeffery, nw sw se 1-2n-23w.

Montana

Amerada Petroleum has completed its Sheridan County discovery, the No. 1 Tange, for 2742 barrels per day. Operator recovered production from the Silurian at the interval 9056-74 feet. This well, located in c ne se 20-36n-53e, is the first production for Sheridan County. Amerada is drilling an outpost, which also will test the Silurian, at the No. 1 Loucks, c ne sw 35-36n-52e.

Phillips Petroleum is continuing to core at the No. 1-A Sethrie, c se se 20-30n-48e, in Roosevelt County,

after finding shows. This is a Winnipeg test and is scheduled to go to 9400 feet.

Lawrence Barker et al have shut in the No. 1 Hougen, nw sw nw 22-10n-29e, in Musselshell County, because of weather conditions. Production was found on a test of the Tyler at 4236-56 feet at the rate of two barrels of oil per hour.

In Fallon County, Shell Oil abandoned the No. 31-11 NP, c nw ne 11-10n-57e, after drilling into the Ordovician at 9508 feet total depth.

Richfield Oil abandoned the No. 1 Pospisil, ne sw 29-15n-16e, in Fergus County, at a total depth of 3050 feet.

Stanolind Oil and Gas and Gulf Oil are coring below 8970 feet at the No. 1 Gelsinger, c sw sw 32-20n-7w, in Lewis and Clark County. A test of the Madison recovered sulphur water.

In the Cabin Creek field of Fallon County, Shell Oil Co. has completed its second successful test of the Mission Canyon, the M-42-29 Unit, c se ne 29-10n-58e. The well was completed for 226 barrels of oil and 10 barrels of water per day through 10/64-inch choke from the interval 7330-7408 feet.

Utah Southern Oil has purchased 160 acres in the Cat Creek field from Ralph Chamberlain. Utah Southern has started reworking 14 wells in the area which have been out of production recently.

South Dakota

A wildcat nine miles southeast of the Buffalo field in Harding County has yielded oil on a drill stem test. The well is the No. 32-27 Govt., c sw ne 27-20n-5e. Operator recovered 205 feet of mud and water cut oil, which was 40 to 50 per cent oil, on the test, taken at the interval 8315-65 feet. The formation was not announced. Operator topped the Silurian at 7930 feet.

North Dakota

Northern Pump has completed its successful wildcat 12½ miles south of the Fryburg field in Billings County with production at the rate of 1224 barrels of black oil per day through 24/64-inch choke at completion. The well is the No. 1 Fritz, se se 15-137n-100w, with production obtained from the Heath at the interval 8055-72 feet. The test was drilled to 9500 feet total depth.

Calvert Drilling has launched the third of a series of Logan County tests after writing off the first two ventures as dry and abandoned. The new test is the No. 1 Craig, c nw nw 25-136n-71w, which will be drilled to the pre-Cambrian, expected at 4600 feet. Latest failure in the series was the No. 1 Bakken, c nw se 28-136n-71w, which was drilled to 3020 feet. The No. 1 Zimmerman, c nw sw 8-136n-71w, was drilled to 3861 feet and abandoned. Calvert is drilling a series of 11 wells in the state. At the No. 1 State, sw se 16-159n-94w, in Burke County, operator was drilling around 6500 feet at last report.

Amerada Petroleum, which is drilling a Winnipeg test in Williams County, has found oil shows in cores at the No. 1 Iverson-Nelson, nw se ne 2-155n-96w. Operator previously recovered gas and oil on a drill stem test at 11,187-11,574 feet. The Red River was topped at 12,692 feet, and the cores were taken at 12,540-598 and 12,734-850 feet.

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Colorado

An important producer along the Las Animas Arch has been completed by the Continental Oil Co. at the No. 1 Lynn, c se nw 13-20s-49w, Kowa County. The well produced at the rate of 240 barrels of oil per day, pump gauge, from the Marmaton formation at the interval 4232-54 feet. The well had previously been completed as a gas producer by D. D. Harrington. Continental, after taking it over, plugged back from the Pennsylvanian to the Marmaton for the oil recovery. Although there have been some gas discoveries, there has been little other oil recovery along the Arch prior to this well.

Carter Oil has staked location for a Paradox test near the western border of the state and northeast of Utah's Aneth field. The Carter test will be the No. 1 Aztec-Govt., c se ne 23-36n-20w.

In Washington County, Cutlass Oil and Calvert Drilling recovered production of 106 barrels of oil per day through 20/64-inch choke at the No. 1 Stoner, c sw se 32-3n-53w. Production was obtained from the

D sand at the interval 4760-66 feet. The operators have staked locations for six additional wells in the area.

The Texas Co. was coring below 5907 feet after finding shows in cores at the No. 1 Jones-Federal A, c se ne 33-35n-19w, Montezuma County.

Petroleum, Inc., swabbed eight barrels of oil per hour from the No. 1 Krall A, c nw se 15-1s-55w, Washington County. Operator was installing tanks and preparing to produce. Recovery was from the D sand through perforations at 4862-70 feet.

Recent leasing activity in the state included that by Southern California Petroleum, which acquired in excess of 1400 acres in Garfield County. The land involved is federal acreage.

Utah

Unitization would be compulsory if 75 per cent of the interest holders in a particular area desired it, under a bill drafted by the Utah Oil and Gas Conservation Commission for submission to the state Legislature. The commission also has prepared other bills affecting the industry in the state.

Carter Oil recovered oil at the rate of 600 barrels per day at the No. 1 Govt.-Woolley, c se sw 16-40s-26e, San Juan County. The producer, which has been completed, is in the East Aneth area. Production was obtained from the Formosa through perforations at 5562-97 feet. The No. 1 Govt.-Woolley is an offset to the discovery well drilled by the Texas Co. to the southwest.

Stanolind Oil and Gas has staked location for the No. 1 Featherstone, nw sw sw 24-40s-22e, one of three Pennsylvanian tests scheduled by major operators in San Juan County. Continental Oil has made location for the No. 1 Federal, c ne ne 20-43s-24e, and Shell Oil, for the No. 2 Hovenweep, c sw se 9-40s-26e.

New Mexico

Skelly Oil Co. has found oil and gas shows at the No. 6 Jicarilla C, se nw se 27-25n-5w, Rio Arriba County. The well has been drilled to 7370 feet total depth, with pipe set at 7348 feet, and is waiting on orders.

Although shows were found in the Dakota, Southern Union Gas has plugged back to the Mesaverde, an established producing formation in the area, at the No. 6 Jicarilla E, se nw ne 21-26n-4w, Rio Arriba County.

In San Juan County, Sinclair Oil and Gas abandoned the No. 1 Santa Fe-Alamo, c nw se 20-21n-9w, having drilled to 3531 feet total depth.

Western Canada

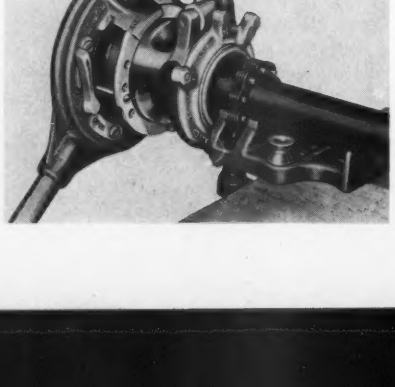
Canada-Cities Service has announced location of a test on its 15,000-acre Keystone block in Alberta and approximately 50 miles southwest of Edmonton. The well will be the Keystone 6-32, scheduled for 6050 feet into the Mississippian. It is located on 1sd 6, Sec. T48-R4W5th and is one mile northwest of the company's recently completed Keystone 14-28. Canada-Cities Service has 5000 acres in the immediate area of the test.

Home Oil Co., Ltd., and United Oils, Ltd., will go ahead to test their scheduled objective, the pre-Cambrian at 10,000 feet, after finding good gas production and some oil in the basal Blairmore at the No. 9-20 Virginia Hills in 1sd 9, 20-65-12w5.

Ridge Improves Pipe Threader

A new True-Centering Workholder has been announced as a revolutionary improvement on the RIGID 65R pipe threader. This new TC Workholder guarantees threads which are always straight and true, according to The Ridge Tool Company, manufacturer.

Even if pipe is over or under size, the 65R with the new TC Workholder assures a perfect thread every time because all three workholder jaws close at one time. User simply presets the workholder cam plate to desired pipe size, which adjusts all three jaws in a single mechanical action. When threader is on the pipe, workholder jaws tighten as this 3-jaw action is continued by pump of palm of operator's hand on forged cam lever. Easy adjustment for drip threads.



The new TC Workholder is said to end all trouble with crooked or lopsided threads. Owners of previous style 65R threaders can enjoy this improvement by buying the new TC Workholder and putting it on present 65R die stock, which is jam-proof, threads 1" to 2" pipe or conduit with one set of dies and permits size changes in only eight seconds.

AAODC Sets Dates for 1957 Safety Clinic

The 12th Annual Drilling Industry Safety Clinic, sponsored by the American Association of Oilwell Drilling Contractors, will be held May 23-24 at the Baker Hotel in Dallas.

W. E. Armentrout, Southeastern Drilling Corporation, Dallas, chairman of the program committee, said the dates for this year's clinic are being advanced to avoid time conflict with fall oil industry meetings. The 1956 clinic was held in November.

Plans for the clinic were made at a meeting of the AAODC Safety Committee in Dallas, January 9. Committee Chairman Donald J. Gillespie, Glenn Gillespie & Sons, Cushing, Oklahoma, announced that a permanent safety publicity subcommittee was named, chairmaned by Mark Johnson, Employers Mutual Liability Insurance Company of Wisconsin, Dallas.

Nurse—"Congratulations? You are the father of triplets."

Building Contractor—"Good Heavens! I've exceeded my estimate again."

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Equipment

NEW OFFICES AND WAREHOUSE OF POWER PUMPS, INC.

Power Pumps, Inc., west coast distributor for Gaso Pump and Burner Manufacturing Company of Tulsa, Okla., have moved to new quarters at 2480 Cherry Avenue, Long Beach 7, California. Phone NEvada 6-8718 and GArfield 4-3908.

The firm has recently been appointed oil field distributor by the Fort Worth Steel and Machinery Company of Fort Worth, Texas, and carries warehouse stocks of shives and V-belts for the oil industry.

In addition to a complete line of Gaso Pumps and parts, Power Pumps, Inc., carries Mission, Evco, Durabla, Lubrikup and Universal pump parts. Hale Manufacturing Company Halo-O-Ring butterfly valves were recently added to Power Pumps, Inc. warehouse items.

Key personnel are: Ralph W. Abbott, president; R. H. Anderton, sales and service representative, and Leo P. McDonald, parts manager.

Magcobar Receives First Shipment of Greek Barite

The first shipment of barite from the new Greek mining and shiploading facilities of Magnet Cove Barium Corporation has arrived at Magcobar's New Orleans, La., plant, it was announced by William M. Johnson, president. This initial 10,000 tons of barite will be processed for use as heavy weight material for drilling mud.

The availability of drilling mud is one of the key factors in the continuing success of the oil industry, as the drilling rate is constantly increasing in this country and abroad. The Louisiana offshore drilling boom particularly has increased the demand for drilling mud.

The development of these extensive Magcobar barite deposits on the Island of Mykonos, Greece, gives the drilling industry new assurance that the availability of drilling mud will continue to keep abreast of the oil industry's needs. Regular shipments of barite from the Mykonos mine will follow this first 10,000 tons.

Magcobar is the world's largest producer of barite. It has 20 different mining and milling operations in seven states and in three foreign countries.

City Dads Told Drilling Favorable

The City of Los Angeles Council, which retained two local geologists to report on the possibility of oil accumulations beneath the municipally owned Rancho Golf Course, has been informed that a strrong possibility exists that the City may be the owner of property overlying an oil accumulation.

The geologists, P. H. Gardett and T. L. Bear, in addition to the opinion anent the golf course, told the council that Universal Cons. Oil Co.'s drilling across Pico Blvd. on the 20th Century-Fox properties conceivably could be draining oil from under the city-owned course. The geologists minimized the possibility of land subsidence in the area because of any oil extraction operations.

Hillcrest Country Club, also adjacent to the city property, has a drilling application pending before the council which—if granted—could also drain oil from under the city park lands.

LAUGH THIS OFF!!

"I want some elephant cartridges," said the customer.

"Certainly, sir how many?" inquired the clerk.

"Oh, about a thousand," replied the customer.

"May I inquire, sir," asked the surprised clerk, "why you wish so many?"

"Because I hate elephants," replied the customer.

It was the morning after a wild, wet night, and the convention delegate staggered down to the hotel restaurant and asked for a big glass of tomato juice.

"May I fix you a Bromo-Seltzer?" asked the waitress, immediately diagnosing the greenness around his gills.

"Ye gods, no," said the delegate. "I couldn't stand the noise."

Randy: "Why do they always give them hurricanes, a girl's name?"

Sandy: "Did you ever hear of a himicane?"

Girl—"I told you to come after supper."

Mechanic—"Sure, that's what I'm after."

Jeanne, aged 4, was fishing with her father, who was wearing his fishing license on the back of his hat. Not having a great deal of luck, Jeanne offered the following suggestion:

"Daddy, turn your hat around so the fish can see your license."

"My girl got sick eating cantaloupe."

"So what?"

"Now she's my melon colic baby."

Boss—Please see to it that I am not disturbed this morning.

Steno—Yes sir. I'll keep my knees covered.

Boss—"What are you doing here? I thought I fired you ten days ago."

Service Manager—"Righto, I just came back to see if you were still in business."

"This is a hold up! Give me your money or else."

"Or else what?" demanded the victim.

"Don't confuse me," said the thug. "This is my first job."

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PAY ZONE
OIL BASE COMPLETION FLUID

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3. RETURN PERMEABILITY
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Wife in defense of her husband: "Nonsense, my husband wouldn't chase after another woman. He's much too fine, too decent, and—too old."

A recent survey has disclosed, that 90 percent of all breast cancers are caused by men who smoke cigarettes.

The customer had just returned to a restaurant for the first time in a long while and the girls had all been outfitted in new uniforms. Across the left breast pocket on each uniform, the girls' names were embroidered. After piroutting for the customer's benefit one of the waitresses faced him and said: "How do you like it?" "I like it very much," he replied, "but tell me, what are you going to name the other one?"

The prim little lady entered the pet shop and walked up to the clerk in charge.

"Excuse me, sir, but I have a fine parrot at home. Would you be interested in buying it?"

The clerk asked, "Does it have a nice plummage?"

"Gracious me, I really don't know," she replied: "It's all covered with feathers, you know."

King Arthur: "I hear you have been misbehaving lately."

Knight: "In what manor, sir?"

"She is a nicely reared girl, isn't she?"

"I should say so. Not bad from the front either."

City girl—"Where does virgin wool come from?"

Farmer—"From sheep that can run the fastest!"

Driver of a jalopy—Dollar's worth of gas, please.

Service station attendant—Why not fill her up?

Driver—She may not go that far.

Over
60
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McCullough® REPORTS TO THE OIL INDUSTRY

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New Services • • • New Tools • • • New Methods • • • Outstanding Results

McCullough Back-Off Service Aids in Recovery of an Extra 3600′ of Stuck Pipe

In some stuck pipe conditions McCullough's Magna-Tector (Free Point Finder) will indicate that working the pipe may free it further down the hole. In this instance the stuck drill pipe was actually loosened 3,600′ below the original sticking point.

Operator was drilling at 5,668′ with 3½″ Full Hole Drill Pipe when pipe stuck. This was a 32° angle directional well.

McCullough was called to run their combination Magna-Tector, String Shot Back-Off. Lowest free point was found at 1,900′. However, the Magna-Tector reading indicated that the drill pipe might be freed further down the hole.

Pipe was worked for 2½ hours and the combination Magna-Tector, String Shot Back-Off was again run. Pipe was found to be free at 5,500′ at the top of the drill collars. The String Shot Back-Off was positioned and fired and pipe was recovered from that point – a bonus of 3,600′ of drill pipe.

McCullough's new combination "One Trip" Back-Off Service obtained the free point reading and fired the back-off shot on a single trip in the hole. Thus, all free pipe was backed off and started out of the well almost immediately after the lowest free point had been found – and before it had a chance to re-stick further back up the hole.

Magna-Tector Helps Save 12 Days Fishing Time on Stuck Pipe Job

Operator Estimated 21 Days to recover 7760′ of Stuck Drill Pipe — Job Actually Completed in 9 Days with Aid of McCullough Back-Off Service.

The time-saving benefits of McCullough Back-Off Service in pipe recovery operations were strikingly demonstrated in this deep California well.

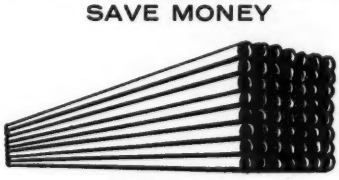
Operator was drilling at 11,360′ when 4½″ O.D. drill pipe became stuck. Only surface casing had been set and hole was open from 500′ to 11,360′.

McCullough was called immediately. The Magna-Tector (Free Point Finder) located the lowest free point in the stuck string at 3,600′. A String Shot Back-Off was fired at that point and the free pipe was removed from the hole.

At the time of the first back-off the Drilling Superintendent advised his head office that it would require an estimated 22 washover operations, 22 String Shot Back-Off shots and 21 days of rig time to recover the remaining 7,760′ of stuck drill pipe. However, due to reliable free point determination, the job was completed in only nine days. After each washover operation, McCullough's Magna-Tector was run to confirm that the washed-over pipe was free. In each instance the Magna-Tector discovered that pipe was free a considerable distance below the lowest washover point. McCullough's String Shot Back-Off successfully loosened the lowest free joint in every case and permitted fast recovery of the freed sections.

SAVE TIME

SAVE MONEY


SAVE PIPE

Call for—McCULLOUGH BACK-OFF SERVICE

McCullough "One Trip" Back-Off Service is now available in most service areas — performs all back-off operations in one electric wire line run in the hole — ask your McCullough Service Engineer.

Instead of 22 separate washover and back-off operations, the use of McCullough Back-Off Service enabled completion of the job in only four recovery operations.

Count the savings this operator made through his foresight in calling for McCullough Back-Off Service. Saved – 18 String Shot Back-Off shots – 18 separate washover operations – 12 days rig time.

It pays to call for McCullough Back-Off Service. You'll save time – save pipe – save money!

McCullough® *TOOL COMPANY*

Cable Address: MACTOOL

LOS ANGELES
HOUSTON
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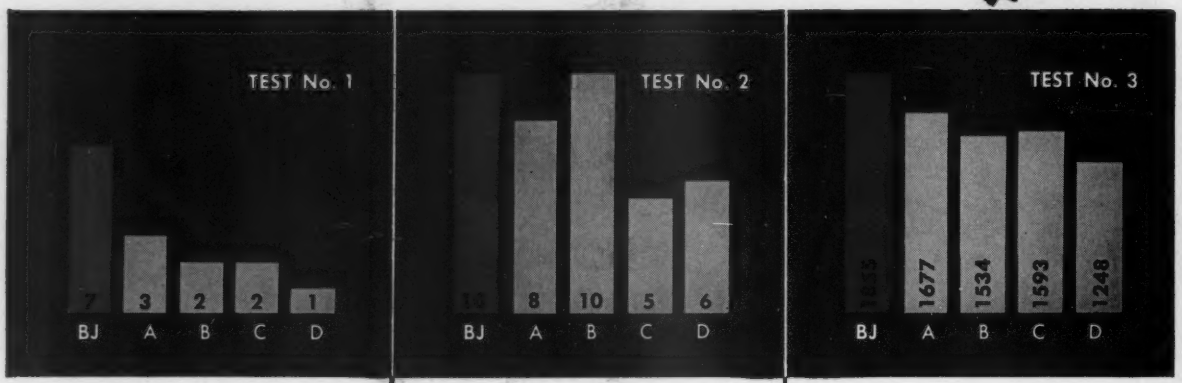
NEW PROOF

BJ Red Top Tong Dies
last longer, grip better!

In the last three months, BJ Red Top and four other leading brands of tong dies have been given a series of exhaustive performance tests. Dozens of each brand of dies were purchased at random through regular supply houses. A special tong die testing machine developed by Byron Jackson for quality control was used to exert three forces – radial, tangential and impact – on die teeth in order to simulate the most exacting field conditions. The results are as follows:



TEST NO. 1. NUMBER OF BLOWS TO SHEAR TEETH:

The testing machine produced heavy impact blows on a single tooth. These blows, kept at constant strength, were repeated until shearing took place.

TEST NO. 2. NUMBER OF BLOWS TO SPALL TEETH:

A series of heavy impact blows was made on a single tooth. These blows were repeated until spalling (chipping) took place. A rating of 10 indicates no spalling.

TEST NO. 3. FT-LBS IMPACT PER ROW TO CAUSE FAILURE:

Impact effect on a row of teeth rather than on a single tooth was studied. The ft-lbs impact force necessary to make each die unfit for use was recorded.

BJ engineers designed this tong die testing machine to measure impact and shear strength. A hydraulic piston applies radial, tangential and impact forces which are accurately measured by precision pressure gages.

Results Talk! These test results are scientific confirmation of the fact that higher grade materials, more efficient methods, and quality control produce a better tong die. Byron Jackson has put years of metallurgical research into finding the best materials and design. BJ is the *only* tong die manufacturer that operates a continuous tong die production line with specially-designed equipment for tong die machining, heat treating and quality control. Next time, reach for BJ Red Top.

BJ

Byron Jackson Tools
INC.

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